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HKMLF77	604743	1204	blastx.2	PRO2550.	sp|AAG35515|AAG35515	70% 66% 41% 66%	633 773 532 672	433 684 446 628
HKMLM32	826523	1205	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp|BAB13911|BAB13911	68%	991	860
HKMLR17	847432	1206	HMMER 2.1.1	PFAM: CUB domain	PF00431	145	425	760
			blastx.2	PROCOLLAGEN C-TERMINAL PROTEINASE ENHANCER PROTEIN 2.	sp|Q9UKZ9|Q9UKZ9	100%	8	1210
HKMLT89	826167	1207	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	66%	1270	1118
HKMLV05	663924	1208	blastx.2	PRO2550.	sp|AAG35515|AAG35515	79%	1595	1290
HKMLV25	695731	1209	blastx.2	LR8.	sp|Q9Y609|Q9Y609	98% 97% 40%	2 328 266	334 474 340
HKMMP90	746876	1213	blastx.2	ORF 73.	sp|O40947|O40947	24% 24% 25% 24% 23% 24% 24% 22% 30% 32% 29% 30%	1054 1060 1054 1054 1054 1012 1054 1012 237 237 240 210	1677 1701 1659 1716 1623 1716 1569 1716 398 407 443 317
HKPAC10	527238	1215	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp|BAB13911|BAB13911	58%	991	677
HKPAC50	830367	1216	blastx.2	NADH-UBIQUINONE	sp|O95139|NB7M_HUM	84%	106	324

				OXIDOREDUCTASE B17 SUBUNIT (EC 1.6.5.3) 1	AN			
HKTAC18	831292	1218	blastx.2	SORTING NEXIN 13 (FRAGMENT).	sp|Q9Y5W8|SNXD_HUMAN	96% 88%	38 3	400 53
HL1SA89	839594	1219	blastx.2	MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S2 (MRP-S2).	sp|Q9Y399|Q9Y399	99%	63	653
HL2AB60	722226	1220	blastx.2	ANCIENT UBIQUITOUS PROTEIN 1 PRECURSOR.	sp|Q9Y679|AUP1_HUMAN	99% 100%	397 64	1293 402
HL3AF32	753468	1222	blastx.2	CG18445 PROTEIN.	sp|Q9V5F2|Q9V5F2	37%	9	524
HLDAV70	623603	1223	blastx.2	DYNACTIN P62 SUBUNIT (CDNA FLJ20292 FIS, CLONE HEP05374).	sp|Q9UJW0|Q9UJW0	100%	175	285
HLDBL62	899498	1224	blastx.2	HEPATOCELLULAR CARCINOMA-ASSOCIATED ANTIGEN 112.	sp|Q9NYC7|Q9NYC7	100%	36	740
HLDBV18	805684	1225	blastx.2	CDNA: FLJ21022 fis, clone CAE06383.	sp|BAB14957|BAB14957	99%	284	1198
HLDBV54	570813	1226	HMMER 2.1.1	PFAM: Sec1 family	PF00995	18.7	180	332
			blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp|BAB15513|BAB15513	92% 65%	707 663	787 785
HLDNF18	821599	1230	WUblastx.64	(AK000830) unnamed protein product [Homo sapiens]	dbj|BAA91392.1|	78%	17	583
HLDNN84	612801	1231	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	56% 57%	574 743	753 883
HLDOD77	610208	1232	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	62% 66%	596 694	414 632
HLDOL74	812765	1233	blastx.2	HSPC279 (FRAGMENT).	sp|Q9P0A2|Q9P0A2	100%	21	671
HLDRU08	701995	1235	blastx.2	CDNA FLJ10793 FIS, CLONE NT2RP4000588.	sp|Q9NVD7|Q9NVD7	99%	13	729
HLDXF43	514022	1236	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain II - human mitochondrion	pir|A00472|OBHU2	64%	164	559
HLEAA10	824265	1237	blastx.2	MARINER TRANSPOSASE.	sp|Q13579|Q13579	78% 85%	738 842	13 741

HLHAE14	865625	1239	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14287|Q14287	60% 37%	1968 1819	1804 1667
HLHAE14	886763	1240	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14287|Q14287	60% 38%	1969 1820	1805 1680
HLHBS54	837503	1241	blastx.2	SELENOPROTEIN N PRECURSOR.	sp|Q9NZV5|SELN_HUMAN	94%	1	1488
HLHCG24	847398	1244	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	78% 95%	1124 891	900 829
HLHCT96	886178	1247	blastx.2	PRO1722.	sp|Q9P195|Q9P195	68% 65% 55%	2132 1823 1915	1917 1695 1841
HLHDJ05	841732	1250	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	66% 68% 66%	708 830 707	547 708 672
HLHDL37	847399	1251	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	78%	690	571
HLHDL69	883335	1252	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp|O09014|O09014	87% 88%	598 305	1314 592
HLHDL69	850691	1253	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp|O09014|O09014	88% 75%	330 305	1484 340
HLHDL69	843836	1254	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp|O09014|O09014	88% 75%	330 305	1484 340
HLHDL69	855906	1255	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp|O09014|O09014	88% 75%	330 305	1484 340
HLHDM38	566843	1256	blastx.2	hypothetical protein DKFZp434L0130.1 - human	pir|T46471|T46471	61% 45% 41%	476 6 172	886 326 339
HLHDR92	692150	1257	blastx.2	PRO2550.	sp|AAG35515|AAG35515	54% 74% 77%	1268 1267 1171	1104 1175 1106
HLHDY94	847121	1258	blastx.2	HYPOTHETICAL 43.0 KDA PROTEIN.	sp|O00572|O00572	73% 88%	18 619	842 876
HLHEI72	874180	1261	HMMER 2.1.1	PFAM: Eukaryotic protein kinase domain	PF00069	106.7	101	403
			blastx.2	SIMILARITY IS TO SERINE/THREONINE-	sp|Q9Y6S4|Q9Y6S4	97% 91%	89 589	526 657

				PROTEIN KINASE (FRAGMENT).				
HLHEX62	608285	1262	blastx.2	PRO2550.	sp|AAG35515|AAG35515	70%	1117	833
HLHFK59	581065	1263	blastx.2	hypothetical protein C0845c - malaria parasite (Plasmodium falciparum)	pir|T18513|T18513	70%	715	816
HLHFP09	805967	1264	blastx.2	DJ453C12.3 (MATRILIN-4).	sp|Q9Y524|Q9Y524	99% 38%	3 102	881 737
HLHGG78	638210	1265	blastx.2	DIPHOSPHOINOSITOL POLYPHOSPHATE PHOSPHOHYDROLASE.	sp|O95989|O95989	100%	10	291
HLHSQ35	570814	1267	blastx.2	RNA BINDING PROTEIN NAPOR-3 (FRAGMENT).	sp|Q9JIX6|Q9JIX6	87% 100%	711 671	827 712
HLHTP55	847322	1269	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	56% 50%	462 320	635 433
HLIBD74	604914	1270	blastx.2	CDNA: FLJ21128 fis, clone CAS06258.	sp|BAB15001|BAB15001	98%	-12	290
HLIBE41	772762	1271	blastx.2	(AF338424) coenzyme A diphosphatase [Mus musculus]	gb|AAK07483.1|AF338424_1	59%	77	409
HLLAX64	827292	1275	blastx.2	DnaJ-like protein MTJ1 - mouse	pir|JC4030|JC4030	88% 74% 89% 30% 32% 66% 45% 36% 36%	395 1023 27 758 1257 364 1428 536 761	1057 1502 416 973 1478 417 1499 676 817
HLLAX95	588405	1276	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	52%	675	406
HLMCT51	772579	1280	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp|BAB13911|BAB13911	72%	1510	1379
HLMCT95	570815	1281	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	61% 60%	1445 1192	1194 1118
HLMDD65	566891	1282	blastx.2	INTERFERON-REGULATED RESISTANCE GTP-BINDING PROTEIN MXA 1	sp|P20591|MX1_HUMAN	96% 100%	571 489	720 575

HLMFB62	604915	1285	blastx.2	CDNA: FLJ21617 fis, clone COL07481.	sp|BAB15100|BAB15100	68%	154	2
HLMFU53	801936	1287	blastx.2	LNV.	sp|AAG15398|AAG15398	81%	1141	620
HLMHG68	580850	1288	blastx.2	(AL139349) bA261P9.2 (putative novel protein similar to fly CG7340) [Homo sapiens]	emb|CAC19813.1|	96%	305	775
HLMHN06	853606	1289	blastx.2	probable transposase - human transposon MER37	pir|S72481|S72481	80% 59%	262 456	107 286
HLMIM84	588487	1291	blastx.2	CGI-105 PROTEIN.	sp|Q9Y3B0|Q9Y3B0	98% 91%	645 296	806 367
HLMIW76	570816	1294	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	65% 65% 69% 85% 63% 57% 59% 57%	776 770 736 531 601 528 600 528	474 591 590 490 536 472 535 472
HLQAD72	853613	1298	HMMER 2.1.1	PFAM: Pancreatic ribonucleases	PF00074	213.4	208	564
			WUblastx.64	RNase 4 [Homo sapiens]	dbj|BAA07150.1|	90%	124	564
HLQAM30	609880	1299	blastx.2	PRO1902 PROTEIN.	sp|Q9UHT1|Q9UHT1	73% 57% 76%	617 490 648	480 398 610
HLQAM59	560662	1300	blastx.2	UNNAMED PROTEIN PRODUCT.	sp|Q9N044|Q9N044	70%	818	1051
HLQCY09	745384	1304	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	58% 44% 57%	759 1025 884	505 945 843
HLQDK45	621414	1307	blastx.2	RBP-MS/TYPE 3.	sp|Q92517|Q92517	100%	609	737
HLQDM47	743237	1308	blastx.2	giant protein p619 - human	pir|S71752|S71752	92%	377	616
HLSAD72	588406	1310	blastx.2	SIMILAR TO RING-H2 FINGER PROTEIN RHA1A.	sp|Q9SNH1|Q9SNH1	100% 100%	495 495	433 433
HLTDI20	610269	1317	blastx.2	CDNA: FLJ22385 fis, clone HRC07610.	sp|BAB15330|BAB15330	95% 70%	58 5	186 76

HLTDI65	740756	1318	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	61%	1263	1463
						46%	1315	1608
						60%	1275	1484
						47%	1848	2027
						63%	2015	2149
						42%	1833	2018
						48%	1939	2079
						36%	1285	1464
						51%	1848	1949
						68%	1457	1513
						57%	2095	2157
						54%	1958	2029
						48%	1443	1544
						55%	1955	2038
						30%	1939	2133
						69%	1530	1568
						42%	1513	1605
						33%	1296	1460
						47%	2095	2163
HLTDK30	834810	1319	blastx.2	CDNA FLJ12133 fis, clone MAMMA1000278.	sp|BAB13983|BAB13983	97%	740	1180
						97%	213	506
						100%	502	747
HLTDL37	638213	1320	blastx.2	CGI-74 PROTEIN.	sp|Q9Y383|Q9Y383	98%	2	1120
						33%	302	1123
						39%	614	1021
						39%	653	994
						66%	1084	1155
HLTDU35	827293	1321	blastx.2	PRO2738.	sp|Q9P1C6|Q9P1C6	37%	1127	954
						78%	958	902
						60%	906	823
HLTDX04	596818	1322	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	90%	1337	1468
						93%	1340	1468
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						80%	1315	1467
						81%	1323	1469
						90%	1341	1469
						90%	1341	1469
						90%	1341	1469
						88%	1340	1468
						81%	1323	1466
HLTEH84	782094	1323	blastx.2	CDNA: FLJ23188 fis, clone LNG12038.	sp|BAB15571|BAB15571	97%	15	491
HLTEL39	853615	1324	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	67%	1545	1387
						39%	1391	1218
HLTEW52	663148	1326	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	83%	1534	1244
HLTEZ36	821676	1327	blastx.2	PRO2550.	sp|AAG35515|AAG35515	76%	7	171
HLTGG14	824068	1328	blastx.2	UNNAMED PROTEIN PRODUCT.	sp|Q9N032|Q9N032	70%	1142	1020
HLUAF94	794116	1329	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	64%	1430	1206
						52%	1492	1430
HLWAH33	855954	1330	blastx.2	PRED43 PROTEIN (FRAGMENT).	sp|Q9NSI3|Q9NSI3	100%	1660	1761
						96%	25	102
HLWAO11	885339	1331	blastx.2	Polydom protein precursor.	sp|AAG32160|AAG32160	78%	14	2656
						33%	14	2371
						30%	152	2635
						33%	2	2383
						30%	14	2371
						32%	14	1627
						29%	14	1699
						28%	506	1408
						32%	680	1426
						31%	14	646

						30%	2	628
						30%	38	640
						24%	494	1990
						28%	161	787
						28%	1469	2020
						32%	2084	2617
						34%	14	373
						41%	2369	2635
						42%	2369	2641
						33%	80	448
						35%	1019	1297
						27%	170	964
						29%	1472	1969
						33%	1745	2074
						25%	14	478
						28%	1886	2179
						44%	2456	2635
						44%	2369	2545
						25%	1310	1771
						29%	2249	2638
						32%	1430	1654
						23%	1142	1609
						36%	1145	1288
						36%	2003	2110
						19%	1382	2194
						35%	95	187
						25%	455	709
						33%	556	636
						28%	2354	2560
						25%	440	673
						32%	869	961
						33%	173	271
HLWAX50	809094	1333	blastx.2	ADAM 12 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND 1	sp|O43184|AD12_HUMAN	96%	628	1629
						93%	1587	2285
						93%	197	661
						64%	178	255
						43%	1553	1669

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HLWBK16	638217	1335	blastx.2	ACTIN-BINDING PROTEIN HOMOLOG ABP-278.	sp|Q9UEV9|Q9UEV9	94%	679	1191
						41%	706	1185
						37%	688	1173
						37%	703	1185
						38%	706	1185
						34%	691	1185
						34%	730	1188
						43%	590	1000
						33%	691	1170
						36%	715	1149
						32%	688	1179
						31%	703	1182
						28%	703	1176
						30%	664	1179
						33%	727	1164
						30%	703	1188
						33%	691	1158
						28%	691	1185
						30%	682	1185
						31%	691	1179
						32%	745	1125
						30%	748	1125
						35%	590	865
						37%	853	1125
						37%	593	775
						43%	593	778
						42%	593	784
						32%	949	1173
						41%	593	778
						32%	551	775
						45%	593	733
						32%	572	784
						44%	593	721
						46%	590	700
						52%	605	700
						54%	593	679
						36%	599	712

						40% 34%	599 673	700 750
HLYAJ79	608289	1339	blastx.2	H+-transporting ATP synthase (EC 3.6.1.34) protein 6 - human mitochondrion	pir|A01049|PWHU6	79%	196	807
HLYAT54	581067	1342	blastx.2	CDNA FLJ12802 fis, clone NT2RP2002124, weakly similar to 1	sp|BAB14279|BAB14279	93%	35	220
HLYBC81	588490	1343	blastx.2	NAG13.	sp|AAG27485|AAG27485	43% 43%	1373 1312	1711 1380
HLYBD09	610019	1344	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	57% 69%	1391 1546	1537 1644
HLYBL67	834538	1345	blastx.2	(AB055298) hypothetical protein [Macaca fascicularis]	dbj|BAB21923.1|	59% 80%	223 176	348 235
HLYBN23	667995	1347	blastx.2	PRO0478 PROTEIN.	sp|Q9UI59|Q9UI59	80% 83%	1333 1397	1395 1450
HLYBT28	608152	1350	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	57%	1082	774
HLYBY04	596819	1352	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	69% 65%	1565 1413	1389 1261
HLYCE15	621407	1353	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp|BAB14900|BAB14900	75%	547	425
HLYCH04	608295	1354	blastx.2	LINE-1 ELEMENT ORF2.	sp|O62658|O62658	47% 45%	106 7	273 39
HLYDE38	735987	1356	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	64% 47%	1106 987	1005 835
HLYDG55	835625	1357	blastx.2	CDNA: FLJ23147 fis, clone LNG09295.	sp|BAB15557|BAB15557	72%	641	423
HLYEA60	685469	1359	blastx.2	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)	pir|A46010|A46010	66%	177	28
HLYEJ14	853362	1360	blastx.2	GLYCOSYLPHOSPHATIDYL INOSITOL-ANCHORED PROTEIN GPI-80.	sp|Q9UMW2|Q9UMW2	100%	94	1653
HLYEJ44	838149	1361	blastx.2	(AL121845) dJ583P15.4.1 (novel protein (translation of	emb|CAC03671.1|	90% 53%	225 124	1007 420

				cDNA FLJ20406 (Em:AK000413))) [Homo sapiens]		71%	371	517
HLYEU51	607815	1362	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	78% 67%	857 691	708 563
HLYGV19	826334	1363	blastx.2	(AL136610) hypothetical protein [Homo sapiens]	emb|CAB66545.1|	99%	144	644
HMABK52	853363	1364	blastx.2	UNNAMED PROTEIN PRODUCT.	sp|Q9N032|Q9N032	62%	1136	1002
HMACL77	853365	1366	blastx.2	HYPOTHETICAL 30.9 KDA PROTEIN.	sp|O95564|O95564	100%	8	325
HMACT74	843744	1367	blastx.2	gamma-interferon-inducible protein IP-30 precursor - human	pir|A43708|A43708	94%	403	639
HMADJ14	843725	1368	blastx.2	(AF305068) DC-specific transmembrane protein [Homo sapiens]	gb|AAG39167.1|AF305068_1	90% 96%	47 871	880 945
HMADJ74	795479	1369	blastx.2	(AF305068) DC-specific transmembrane protein [Homo sapiens]	gb|AAG39167.1|AF305068_1	90% 85%	186 1010	989 1393
HMAEA58	872563	1370	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	71% 36%	1339 584	1172 519
HMAGF01	837235	1371	blastx.2	RAB5 GDP/GTP EXCHANGE FACTOR HOMOLOGUE.	sp|Q9UJ41|Q9UJ41	99%	71	1543
HMCED78	829071	1373	blastx.2	CDNA FLJ20533 FIS, CLONE KAT10931.	sp|Q9NWY5|Q9NWY5	98%	380	862
HMCGJ47	699850	1375	blastx.2	SERINE PALMITOYLTRANSFERASE 1 (EC 2.3.1.50) (LONG CHAIN 1 1	sp|O15269|LCB1_HUMAN	98% 100%	495 11	1430 511
HMCGK88	654854	1376	blastx.2	DJ1056H1.2.1 (novel protein similar to mitogen inducible protein MIG-2 (isoform 1)) (Fragment).	sp|CAC03433|CAC03433	52% 64%	982 506	449 336
HMCIH27	862038	1377	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	70%	1305	1063
HMCIQ20	827296	1378	blastx.2	UNNAMED PORTEIN	sp|Q9N083|Q9N083	69%	1119	1003

				PRODUCT.				
HMDAE88	638222	1381	blastx.2	PRO0898.	sp|AAG35479|AAG35479	81% 58% 50%	844 1010 1011	734 843 904
HMDAM39	602907	1385	blastx.2	PRO1722.	sp|Q9P195|Q9P195	67%	648	388
HMEAA41	587304	1386	blastx.2	CDNA: FLJ22282 fis, clone HRC03861.	sp|BAB15286|BAB15286	100%	9	419
HMEEH21	603187	1388	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	65%	280	504
HMEEZ07	638225	1390	blastx.2	F-BOX PROTEIN FBX9.	sp|Q9UK97|Q9UK97	100%	795	917
HMEIH57	840370	1392	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14288|Q14288	53% 74% 59% 58% 69%	1236 238 847 1348 371	190 11 650 1190 303
HMEIJ21	767276	1393	blastx.2	(AL136929) hypothetical protein [Homo sapiens]	emb|CAB66863.1|	57% 66% 50%	1691 2388 828	840 1771 709
HMEJC96	761218	1395	blastx.2	MEMBRANE GLYCOPROTEIN GP36 PRECURSOR.	sp|O60836|O60836	100%	193	669
HMEJD36	688860	1396	blastx.2	FLJ00047 protein (Fragment).	sp|BAB15745|BAB15745	54%	1059	1199
HMEJK28	825591	1397	blastx.2	NON-HISTONE CHROMOSOMAL PROTEIN.	sp|O00479|O00479	100%	216	485
HMEKW44	825499	1399	blastx.2	HYPOTHETICAL 16.6 KDA PROTEIN (FRAGMENT).	sp|O18975|O18975	98%	7	198
HMEKW71	855955	1400	blastx.2	(AL512735) hypothetical protein [Homo sapiens]	emb|CAC21666.1|	96%	579	758
HMHBI09	847402	1403	blastx.2	54TMP.	sp|O95070|O95070	59%	36	683
HMHBI93	844729	1404	blastx.2	TGFB1-INDUCED ANTI-APOPTOTIC FACTOR 1 (12 KDA 1	sp|Q9Z1S4|TIAF_MOUSE	100%	1391	1735
HMIAC52	825484	1406	blastx.2	HRIHFB2018 PROTEIN (FRAGMENT).	sp|O94792|O94792	100% 70% 38%	67 941 1118	927 1201 1219
HMIAG42	846339	1408	blastx.2	REGULATOR OF G	sp|O76081|O76081	100%	1080	1730

				PROTEIN SIGNALING.				
HMIAG55	736020	1409	blastx.2	ribosomal protein L11, cytosolic [validated] - rat	pir|JT0606|R5RT11	67%	424	609
HMIAG72	824091	1410	blastx.2	CRE BINDING PROTEIN-LIKE 2.	sp|O60519|O60519	100%	318	677
HMIAO82	833070	1412	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	68%	2459	2695
						76%	2493	2693
						53%	2462	2755
						49%	1473	1802
						58%	1485	1679
						69%	1507	1665
						43%	2553	2780
						34%	2454	2708
						31%	1372	1794
						36%	2489	2758
						65%	1656	1742
						56%	1576	1665
						61%	1646	1723
						48%	1548	1661
						52%	1466	1537
						33%	1539	1667
						76%	2701	2739
						41%	1704	1790
						83%	1739	1774
						38%	2468	2560
						35%	1709	1801
						57%	2710	2751
HMIAR42	809096	1413	blastx.2	INTERFERON-RELATED DEVELOPMENTAL REGULATOR 1 (NERVE 1	sp|O00458|IFR1_HUMAN	99%	7	849
						91%	831	1052
						87%	1046	1165
HMIAV33	668252	1414	blastx.2	DNA, L1 ELEMENT INSERTION IN INTRON 3 OF MITF GENE.	sp|Q9QYM3|Q9QYM3	52%	1167	1346
						38%	1051	1182
						36%	431	126
						40%	612	418
						28%	1084	611
						41%	138	10
						25%	963	802

HMIBE95	804597	1417	blastx.2	probable transposase - human transposon MER37	pir|S72481|S72481	54% 60% 64% 62% 80%	1355 1932 1221 1783 1375	1948 2075 1355 1863 1434
HMKAN71	884161	1420	blastx.2	CDNA FLJ10983 FIS, CLONE PLACE1001781, WEAKLY SIMILAR TO 1	sp|Q9NV22|Q9NV22	99%	12	1385
HMKBA33	596949	1421	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	59% 59% 49% 52% 68% 38% 46% 46% 40% 35% 48% 58% 42% 59% 37% 38% 35% 33% 45% 42%	1312 1689 1661 1336 1281 1622 1689 1148 1147 1225 1528 1233 1686 1142 1578 1592 1680 1314 498 677	1016 1459 1392 1118 1141 1371 1516 1002 971 1013 1400 1147 1603 1077 1393 1416 1516 1147 439 621
HMKCK32	561576	1423	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	61%	619	335
HMKDD51	894846	1426	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	54% 49% 49% 49% 49% 49% 49%	896 878 878 878 878 878 878	1150 1150 1150 1150 1150 1150 1150

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HMKDM80	608168	1428	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	70% 71%	175 615	11 574
HMKEG88	634245	1429	blastx.2	PUTATIVE P150.	sp|O00378|O00378	47%	294	4
HMMAA09	822859	1430	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	67%	1325	999
HMMAK92	610100	1431	blastx.2	PRO0478 PROTEIN.	sp|Q9UI59|Q9UI59	76%	554	682
HMMBF22	780406	1434	blastx.2	CDNA FLJ10707 FIS, CLONE NT2RP3000859.	sp|Q9NVI9|Q9NVI9	98% 96% 56% 32%	824 407 1228 875	1225 499 1341 1183
HMMBH94	607463	1436	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	80% 77%	896 724	741 593
HMMBK55	608179	1437	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	65% 66% 58%	766 521 480	527 468 430
HMMBT47	804594	1441	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	65% 65%	1238 1074	1047 937
HMMCD35	607840	1442	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	57%	811	521
HMMCD95	603202	1443	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	62% 58%	1658 1498	1494 1397
HMPAB26	580854	1444	blastx.2	DEATH DOMAIN CONTAINING PROTEIN CRADD (CASPASE AND RIP 1 1	sp|P78560|CRAD_HUM AN	100%	66	365
HMQAI38	589964	1446	blastx.2	immune-responsive gene 1 - mouse (fragment)	pir|I54546|I54546	72%	11	1363
HMQAT69	799551	1447	blastx.2	SORTING NEXIN 9 (SH3 AND PX DOMAIN-CONTAINING PROTEIN 1) 1	sp|Q9Y5X1|SNX9_HUM AN	94% 93% 82%	739 56 660	1842 748 809
HMQBL90	600363	1448	blastx.2	pre-B cell Ig lambda-like omega light chain (non-rearranging) 14.1 - human	pir|A33911|A33911	76% 52%	974 879	1309 1091
HMQBV82	826522	1449	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	68% 40%	1005 651	868 592
HMQCA75	767086	1450	blastx.2	PRO1722.	sp|Q9P195|Q9P195	70%	1072	944

						69% 50%	1161 1238	1063 1167
HMQCB37	732168	1451	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	68% 44% 66% 58%	587 831 1087 537	844 1085 1167 629
HMQCX41	603388	1453	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	55% 43%	16 192	204 260
HMQDM09	664494	1454	blastx.2	SELENOPROTEIN X 1 (PROTEIN HSPC270).	sp|Q9NZV6|SELX_HUMAN	98%	38	385
HMSAP33	731969	1456	blastx.2	PRO0663 (FRAGMENT).	sp|Q9UI48|Q9UI48	78%	1553	1398
HMSAZ48	877650	1457	blastx.2	probable pol polyprotein-related protein 4 - rat	pir|S21348|S21348	46% 66%	793 722	1218 784
HMSBN18	847405	1458	blastx.2	ZNF258.	sp|O95789|O95789	65%	165	329
HMSBS25	826487	1459	blastx.2	K:CL COTRANSPORTER 3.	sp|Q9Y642|Q9Y642	90% 77% 81%	188 1019 337	346 1189 384
HMSBU14	844443	1460	blastx.2	hypothetical protein DKFZp761L0812.1 - human (fragment)	pir|T47135|T47135	54%	1081	1488
HMSCB94	847406	1462	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	80% 45%	1931 1690	1683 1589
HMSCK12	825475	1463	blastx.2	PRO1722.	sp|Q9P195|Q9P195	81% 62%	622 771	491 613
HMSCV75	838530	1465	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	67% 45%	1438 1581	1301 1477
HMSCW44	716249	1467	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	61%	1268	954
HMSCZ19	847408	1468	blastx.2	(AL512760) hypothetical protein [Homo sapiens]	emb|CAC21679.1|	99% 91%	1 621	675 1124
HMSDI67	827298	1469	blastx.2	probable pol polyprotein-related protein 4 - rat	pir|S21348|S21348	38% 55%	1748 1255	1284 1121
HMSDR28	801948	1471	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	72% 76%	1317 1097	1102 1035
HMSFT25	581069	1472	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	53% 68%	912 1088	1040 1144

HMSFW52	603177	1473	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	67% 63%	1348 1500	1506 1631
HMSGU30	847409	1475	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	57% 47%	1489 1436	1719 1498
HMSHB42	792385	1476	blastx.2	(AL136832) hypothetical protein [Homo sapiens]	emb|CAB66766.1|	97%	4	867
HMSHB42	600401	1477	blastx.2	(AL136832) hypothetical protein [Homo sapiens]	emb|CAB66766.1|	99%	4	1203
HMSHN72	855917	1478	blastx.2	Doublecortin.	sp|AAG18479|AAG18479	88%	650	754
HMSHW73	704099	1480	blastx.2 -	PRO1722.	sp|Q9P195|Q9P195	71% 65% 62%	2072 2131 2214	1935 2063 2134
HMSII36	825453	1482	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	50% 69%	51 23	221 61
HMSIT42	581070	1483	blastx.2	PRO2822.	sp|Q9P147|Q9P147	80%	1160	936
HMSJB08	877651	1484	blastx.2	hypothetical 33.6K protein - rabbit fibroma virus	pir|JQ1743|JQ1743	36% 33%	959 1411	648 1037
HMSJR44	638098	1487	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	72% 47% 75% 55%	1015 1182 798 715	803 1012 712 596
HMSKQ91	825450	1488	blastx.2	Hypothetical 15.8 kDa protein.	sp|AAG17270|AAG17270	68%	864	742
HMTAF92	740784	1490	blastx.2	UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 3 (EC 3.1.2.15) 1 1	sp|Q9Y6I4|UBP3_HUMAN	93% 100% 93%	2053 1380 2211	644 1309 2167
HMTAT36	811885	1491	blastx.2	CDNA: FLJ21620 fis, clone COL07838.	sp|BAB15101|BAB15101	100%	1	117
HMUAD65	809097	1493	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	67%	1524	1213
HMUAT23	897758	1494	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp|BAB15513|BAB15513	100% 100% 96% 82% 96% 96%	1982 1983 1981 1968 1982 1981	2068 2069 2067 2069 2068 2067
HMUBJ22	824071	1496	blastx.2	(AP002460)	dbj|BAA97098.1|	71%	1582	1749

				gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]		92%	1632	1748
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						94%	1639	1749
						87%	1632	1748
HMUBK53	553624	1497	blastx.2	CDNA FLJ13156 fis, clone NT2RP3003490, weakly similar to 1	sp|BAB14470|BAB14470	100%	18	398
HMUBO15	597434	1499	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	84%	617	808
						88%	630	809
						88%	629	808
						88%	629	808
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HMUBY57	844800	1501	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	52% 84%	1943 1596	1572 1558
HMUBZ15	609837	1502	blastx.2	hypothetical protein DKFZp564J0123.1 - human (fragment)	pir|T08682|T08682	99% 84%	490 2	963 76
HMVAL15	822860	1503	blastx.2	A-kinase anchor protein 95 - human	pir|T13161|T13161	100%	1	348
HMVBC84	743191	1504	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	76% 47%	1135 1019	1019 957
HMVBD68	831130	1505	blastx.2	catalase (EC 1.11.1.6) - Campylobacter jejuni	pir|I40767|I40767	85%	207	103
HMVCG17	846161	1506	blastx.2	APOPTOSIS REGULATOR.	sp|Q9NZS9|Q9NZS9	96% 100% 33%	282 204 89	458 290 151
HMVDT89	831127	1511	blastx.2	Sialic acid-specific acetylesterase II.	sp|AAG14897|AAG14897	98% 99%	384 2	809 385
HMVDT89	875313	1512	blastx.2	Sialic acid-specific acetylesterase II.	sp|AAG14897|AAG14897	98% 99%	384 2	809 385
HMWAO65	839268	1513	blastx.2	HSPC280 (FRAGMENT).	sp|Q9P0A1|Q9P0A1	100%	30	371
HMWAO82	825427	1514	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	84%	479	366
HMWBK35	566888	1516	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	58% 43%	910 968	629 900
HMWBL38	602940	1518	blastx.2	PRO2550.	sp|AAG35515|AAG35515	70%	917	612
HMWBM48	566828	1519	blastx.2	ribosomal protein L3 precursor, mitochondrial - human	pir|A27294|R5HUL3	100% 100%	609 794	379 609

HMWCG28	847413	1520	blastx.2	KINASE DEFICIENT PROTEIN KDP (FRAGMENT).	sp|Q9P1S9|Q9P1S9	99%	35	892
HMWCP85	757974	1521	blastx.2	Na+-dependent vitamin C (L-ascorbic acid) transporter SVCT1 - human	pir|JC7182|JC7182	86% 65% 79% 89% 100% 32%	363 698 1181 37 769 187	737 1264 1507 297 834 540
HMWDG30	623758	1522	blastx.2	CG4263 PROTEIN.	sp|Q9VQ76|Q9VQ76	37% 43%	30 1364	668 1411
HMWDU20	695743	1523	blastx.2	CDNA FLJ20335 FIS, CLONE HEP11429 (FRAGMENT).	sp|Q9NXB8|Q9NXB8	98% 89% 75%	1004 918 347	1831 1034 454
HMWDZ63	608146	1525	blastx.2	ISOCITRATE DEHYDROGENASE [NAD] SUBUNIT GAMMA, MITOCHONDRIAL 1 ICDH).	sp|P41565|IDHG_RAT	100% 33%	169 399	74 301
HMWEA77	839221	1526	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	71% 69% 53%	1281 761 1367	1075 645 1284
HMWEC03	598902	1527	blastx.2	HEAT SHOCK PROTEIN HSP60.	sp|Q9P0X2|Q9P0X2	100% 99% 100%	573 105 1066	1064 572 1365
HMWEF46	825433	1528	blastx.2	(AL136803) hypothetical protein [Homo sapiens]	emb|CAB66737.1|	100%	1113	1226
HMWEK43	847414	1529	blastx.2	CDNA FLJ13520 fis, clone PLACE1005828.	sp|BAB14616|BAB14616	46%	940	1167
HMWEM23	863105	1530	blastx.2	CDNA: FLJ22548 fis, clone HSI00519.	sp|BAB15391|BAB15391	99% 95%	152 1086	1114 1532
HMWEM23	859387	1531	blastx.2	CDNA: FLJ22548 fis, clone HSI00519.	sp|BAB15391|BAB15391	99% 95%	152 1086	1114 1532
HMWEU96	601698	2606	WUblastx.64	(AB039669) ALEX3 [Homo sapiens]	dbj|BAA94602.1|	88%	86	1222
HMWEX02	596821	1534	WUblastx.64	(AK024506) FLJ00116 protein [Homo sapiens]	dbj|BAB15796.1|	67%	509	1000
HMWFB65	638102	1535	blastx.2	MCD4P HOMOLOG.	sp|O95427|O95427	100%	37	594

						98% 95% 68%	581 894 9	898 959 59
HMWFD77	610105	1536	blastx.2	PRO1902 PROTEIN.	sp|Q9UHT1|Q9UHT1	51% 61%	496 351	350 289
HMWFO25	566855	1537	blastx.2	CDNA FLJ12060 fis, clone HEMBB1002142.	sp|BAB13965|BAB13965	100%	736	816
HMWGM41	847415	1539	blastx.2	CDNA FLJ13352 fis, clone OVARC1002165, weakly similar to 1	sp|BAB14568|BAB14568	100%	33	986
HMWGO95	582078	1540	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	68% 82%	1390 1446	1145 1396
HMWGV85	847416	1541	blastx.2	CDNA FLJ13631 fis, clone PLACE1011090, highly similar to 1	sp|BAB14643|BAB14643	100%	41	298
HMWGZ42	824259	1542	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	50%	1304	1519
HMWIQ26	722234	1545	blastx.2	BG:DS08220.1 PROTEIN.	sp|Q9VJV4|Q9VJV4	43% 46% 43% 20%	493 931 221 388	5 395 162 20
HMWIU49	800894	1546	blastx.2	APOPTOSIS-INDUCING FACTOR AIF.	sp|O95831|O95831	97% 98% 38%	379 3 1384	1362 407 1500
HMWJJ62	838612	1547	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	64% 85% 62%	952 780 713	758 718 633
HMWJJ64	581071	1548	blastx.2	CG6949 PROTEIN.	sp|Q9VCX3|Q9VCX3	43%	165	917
HNAAD76	596801	1549	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	58% 56% 57% 65%	14 972 1822 1650	136 1019 1646 1528
HNALD94	844722	1551	WUblastx.64	(AK000385) unnamed protein product [Homo sapiens]	dbj|BAA91131.1|	70% 72%	764 816	817 926
HNALE44	785045	1552	blastx.2	FILAMIN, MUSCLE ISOFORM.	sp|Q9Y503|Q9Y503	98% 42% 33%	79 79 16	1191 798 879

						33%	85	792
						32%	82	792
						31%	82	852
						35%	79	783
						34%	79	792
						38%	340	864
						28%	49	795
						31%	79	792
						27%	88	1017
						33%	109	795
						30%	88	855
						32%	112	801
						28%	103	855
						31%	262	795
						28%	79	846
						40%	880	1188
						38%	901	1188
						33%	880	1188
						28%	751	1182
						31%	685	1188
						32%	880	1188
						29%	799	1188
						32%	901	1188
						100%	12	86
						28%	817	1188
						31%	910	1218
						31%	913	1188
						31%	430	792
						33%	916	1188
						25%	952	1188
						28%	925	1188
						72%	12	86
						31%	916	1218
						62%	12	83
						27%	940	1188
						60%	18	86
						51%	12	95

						45% 43% 31% 36% 29% 46% 28% 36% 36% 26% 52%	12 1254 783 9 18 15 1069 12 18 1790 12	77 1343 896 95 98 86 1182 77 92 1927 62
HNDAC35	847417	1553	blastx.2	PROTEIN AD-016 (PROTEIN CGI-116) (X0009).	sp|Q9Y3C0|AD16_HUMAN	100%	484	564
HNEAK38	631279	1556	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	71% 71% 29%	1376 1204 1383	1197 1100 1189
HNEAK65	604991	1557	blastx.2	PRO1722.	sp|Q9P195|Q9P195	82% 72%	715 570	560 427
HNEBY79	841769	1559	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	65% 47% 90%	1519 1205 933	1184 909 904
HNECL75	782493	1561	blastx.2	Pellino.	sp|CAC04320|CAC04320	100% 96%	627 215	1268 649
HNECX90	834776	1562	blastx.2	HYPOTHETICAL 43.5 KDA PROTEIN.	sp|Q9UJL8|Q9UJL8	100%	81	1265
HNECX90	881133	1563	blastx.2	HYPOTHETICAL 43.5 KDA PROTEIN.	sp|Q9UJL8|Q9UJL8	100%	81	1265
HNEDP75	581072	1565	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	63%	910	722
HNEDQ02	846061	1566	blastx.2	CDNA FLJ10631 FIS, CLONE NT2RP2005635, WEAKLY SIMILAR TO 1	sp|Q9NVM8|Q9NVM8	97% 64%	1018 884	2013 1063
HNEDU46	695745	1567	blastx.2	6-phosphofructo-2-kinase heart isoform.	sp|BAB19681|BAB19681	100% 95% 95%	343 137 766	420 208 825
HNFAD50	839369	1568	blastx.2	(AJ298133) hypothetical protein [Homo sapiens]	emb|CAC22252.1|	52% 29%	128 1253	859 1555

HNFAD50	843242	1569	blastx.2	(AJ298133) hypothetical protein [Homo sapiens]	emb|CAC22252.1|	57% 29%	17 773	379 1075
HNFAG67	804546	1570	blastx.2	(AX058048) unnamed protein product [Homo sapiens]	emb|CAC22473.1|	99%	327	857
HNFCJ77	886185	1571	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	72% 55% 68% 45% 67% 36% 56% 39% 50% 30% 92% 51% 63% 38% 37%	1945 1944 1945 2346 1818 2346 2342 2297 1927 2349 2146 2254 2141 1745 2173	1796 1711 1793 2125 1717 2140 2220 2088 1844 2134 2105 2162 2088 1653 2102
HNFCY57	877653	1573	blastx.2	ANGIOTENSIN/VASOPRESSIN RECEPTOR AII/AVP.	sp|O75434|O75434	75% 72% 39%	317 1604 1763	1849 2203 2110
HNFDL89	823362	1574	blastx.2	NINJURIN (NERVE INJURY-INDUCED PROTEIN 1).	sp|Q92982|NINJ_HUMAN	100% 87% 50%	1964 2098 826	2107 2193 909
HNFDU92	602933	1576	blastx.2	PRO2822.	sp|Q9P147|Q9P147	71% 76%	610 438	422 388
HNFDY09	843300	1577	blastx.2	(AL137028) bA476I15.3 (novel protein similar to septin) [Homo 1	emb|CAC28313.1|	53% 72% 77%	1104 1265 1228	1238 1363 1281
HNFDY31	724955	1578	blastx.2	DEAD-BOX PROTEIN 3 (HELICASE-LIKE PROTEIN 2) (HLP2) 1	sp|O00571|DDX3_HUMAN	98% 98%	169 693	621 1028
HNFEA17	753242	1579	blastx.2	MAIL.	sp|BAB18302|BAB18302	45% 49%	836 266	1306 565
HNFEP55	722236	1580	blastx.2	HYPOTHETICAL 73.6 KDA PROTEIN.	sp|Q9NW80|Q9NW80	71% 41%	158 877	862 966

HNFET12	824170	1581	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	63%	1251	952
HNFFR59	634649	1582	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp|BAB14900|BAB14900	75%	1630	1511
HNFGR15	844044	1584	blastx.2	HYPOTHETICAL 15.4 KDA PROTEIN.	sp|Q99770|Q99770	64% 53%	776 1128	886 1172
HNFGW53	589525	1586	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	71%	936	823
HNFHV68	567445	1589	blastx.2	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	pir|T29097|T29097	47%	380	24
HNFIE15	898153	1590	blastx.2	PRO2550.	sp|AAG35515|AAG35515	59% 72%	2612 2374	2370 2300
HNFIE29	852233	1591	blastx.2	Hypothetical 12.9 kDa protein.	sp|BAB12124|BAB12124	58%	1151	1387
HNFJE27	825400	1593	blastx.2	CDNA FLJ11197 FIS, CLONE PLACE1007690.	sp|Q9NUQ9|Q9NUQ9	93%	986	1123
HNGAC71	695746	1595	blastx.2	PRO2822.	sp|Q9P147|Q9P147	60% 70%	148 68	65 9
HNGAX06	841890	1599	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14288|Q14288	100%	22	108
HNGBE44	825391	1603	blastx.2	AXONEMAL DYNEIN HEAVY CHAIN (FRAGMENT).	sp|O00437|O00437	96%	323	502
HNGBI83	566815	1605	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	59% 56% 74% 56% 51% 61% 44% 61% 53%	280 283 13 22 12 10 28 42 122	420 420 87 111 104 87 114 80 160
HNGBP30	603344	1607	blastx.2	Hypothetical 15.8 kDa protein.	sp|AAG17270|AAG17270	54%	411	241
HNGCF29	580201	1611	blastx.2	PRO2550.	sp|AAG35515|AAG35515	51%	1147	842
HNGCF64	823147	1612	blastx.2	Hypothetical 14.2 kDa protein.	sp|AAG17216|AAG17216	53% 39%	1763 1932	1623 1765
HNGDF54	702002	1613	blastx.2	POSSIBLE SRPA.	sp|Q9N8T2|Q9N8T2	29%	15	728

HNGDH27	581074	1615	blastx.2	RETINOBLASTOMA 1.	sp|Q92722|Q92722	46% 42% 38%	290 290 99	99 57 22
HNGDN07	847081	1616	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	75%	898	1089
HNGEE06	689506	1622	blastx.2	CDNA FLJ12988 fis, clone NT2RP3000080.	sp|BAB14376|BAB14376	61% 43%	1040 66	909 1
HNGEI64	732066	1625	blastx.2	RAT 2.4 KB REPEAT DNA RIGHT TERMINAL REGION (FRAGMENT).	sp|Q63500|Q63500	51% 57%	564 512	710 568
HNGEN32	621308	1628	blastx.2	CDNA: FLJ22294 fis, clone HRC04426.	sp|BAB15291|BAB15291	82% 44%	400 293	567 400
HNGET33	825378	1631	blastx.2	PRO2550.	sp|AAG35515|AAG35515	78%	459	755
HNGEX18	621339	1632	blastx.2	DNA-binding protein - mouse (fragment)	pir|JQ1058|JQ1058	89% 32%	11 291	67 473
HNGEZ02	825376	1634	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	80%	819	938
HNGEZ90	634858	1635	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	71% 72%	956 1119	810 1045
HNGFA25	609887	1636	blastx.2	Extremely cysteine/valine rich protein (Fragment).	sp|CAC02731|CAC02731	46% 42% 47% 43% 49% 40% 43% 43%	235 250 235 244 235 244 235 235	2 2 2 2 2 2 2 2
HNGFD30	612782	1638	blastx.2	ORF3,SPLICEVARIANT_A.	sp|O75423|O75423	98%	264	100
HNGFD31	663532	1639	blastx.2	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)	pir|A46010|A46010	62%	479	670
HNGFG04	772548	1641	blastx.2	X-LIKE 1 PROTEIN.	sp|Q9Y485|Q9Y485	100%	408	533
HNGFI21	581075	1645	blastx.2	PROLINE-RICH PROTEIN PRCC.	sp|Q92733|PRCC_HUMAN	60%	117	296
HNGFT70	581079	1650	blastx.2	CDNA FLJ12155 fis, clone MAMMA1000472.	sp|BAB13989|BAB13989	71% 60%	1079 919	912 767

HNGGF13	638117	1653	WUblastx.64	HC1 ORF [Mus musculus]	emb|CAA46991.1|	38% 37%	13 13	183 186
HNGGK63	822862	1654	blastx.2	OLFACTORY RECEPTOR.	sp|Q9QZ22|Q9QZ22	88% 84%	994 1224	278 991
HNGGT10	866179	1659	HMMER 2.1.1	PFAM: 3-beta hydroxysteroid dehydrogenase/isomerase family	PF01073	263.9	19	468
			blastx.2	3 beta-hydroxy-delta 5-C27-steroid oxidoreductase.	sp|AAG37824|AAG37824	98%	10	480
HNGHB89	722238	1661	blastx.2	E-STOP PROTEIN.	sp|O88748|O88748	97%	153	7
HNGHD07	608149	1662	blastx.2	Hypothetical 12.9 kDa protein.	sp|BAB12124|BAB12124	65% 58%	1038 1168	1169 1218
HNGIK07	825360	1668	blastx.2	(AF063598) brain my040 protein [Homo sapiens]	gb|AAG43157.1|AF063598_1	100%	1139	912
HNGIM40	747699	1669	blastx.2	CDNA: FLJ22921 fis, clone KAT06711.	sp|BAB15502|BAB15502	83%	2354	2196
HNGIM83	751714	1670	HMMER 2.1.1	PFAM: HCO3- transporter family	PF00955	117.9	72	290
			blastx.2	BICARBONATE TRANSPORTER.	sp|Q9UIB9|Q9UIB9	91%	9	290
HNGIO93	897527	1671	HMMER 2.1.1	PFAM: Ribosomal L27 protein	PF01016	71.7	-21	-233
			WUblastx.64	(AB049647) mitochondrial ribosomal protein L27 (L27mt) [Homo sapiens]	dbj|BAB40852.1|	88%	151	594
HNGIU16	826717	1673	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	69%	2517	2215
HNGIX91	564574	1674	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp|BAB14900|BAB14900	75% 80%	698 885	892 947
HNGJU60	825336	1682	blastx.2	Extremely cysteine/valine rich protein (Fragment).	sp|CAC02731|CAC02731	54% 50% 51% 53% 52% 53% 48%	180 171 171 169 171 171 171	482 491 488 489 488 476 488

						51% 53% 47% 52% 48% 52% 48% 50% 49% 50% 48% 53% 49% 51% 53% 46% 49% 49% 45% 43% 46% 52% 51%	171 169 171 166 171 169 171 171 172 170 171 172 170 169 178 170 170 170 170 170 170 166 166	482 489 488 489 488 489 491 470 489 487 491 489 490 489 489 487 487 487 487 487 487 453 333
HNGKW35	899408	1684	blastx.2	HYPOTHETICAL 11.0 KDA PROTEIN (ORF2).	sp|O00627|O00627	53%	292	477
HNGKY94	835021	1685	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	70% 66%	813 581	583 501
HNHAB38	609892	1688	blastx.2	PRO2550.	sp|AAG35515|AAG35515	78%	635	339
HNHAD34	612845	1690	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	70%	1055	924
HNHAY26	704789	1698	blastx.2	PRO2852.	sp|AAG35505|AAG35505	85%	2098	1919
HNHAZ20	839696	1700	blastx.2	(AF119045) unknown [Homo sapiens]	gb|AAK02011.1|	99% 40%	1213 1464	11 1375
HNHBE21	606789	1701	blastx.2	protein BYJ15 - common tobacco (fragment)	pir|T02229|T02229	100%	102	176
HNHBE38	562730	1702	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	77%	1151	855

HNHBG18	604924	1703	blastx.2	L1 ELEMENT L1.15 P40 PROTEIN.	sp|O00365|O00365	30%	717	271
HNHBM16	566866	1705	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	68% 87%	337 80	80 33
HNHCH78	694657	1706	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	75%	5	298
HNHCT47	634691	1710	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	56% 46%	621 434	448 396
HNHDC52	812424	1713	blastx.2	L1 ELEMENT L1.15 P40 PROTEIN.	sp|O00365|O00365	68% 32%	904 1038	269 910
HNHDI17	738043	1716	blastx.2	POT. ORF VI (FRAGMENT).	sp|O95662|O95662	70% 80%	5 265	295 327
HNHDR57	638121	1719	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	69% 37%	1092 669	799 364
HNHDR96	664497	1720	blastx.2	hypothetical protein XF0051 [imported] - Xylella fastidiosa (strain 9a5c)	pir|G82853|G82853	41% 52% 52% 41% 45% 48% 54% 48% 42%	1033 980 980 1021 993 975 980 975 1021	764 765 765 794 763 763 816 775 830
HNHDW34	607867	1722	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	66% 66%	985 1175	671 999
HNHEF70	610115	1728	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	66% 77% 80%	650 417 481	462 352 419
HNHEL22	607421	1731	blastx.2	CDNA FLJ11292 FIS, CLONE PLACE1009665.	sp|Q9NUL2|Q9NUL2	72% 71%	363 280	656 342
HNHEN70	854712	1732	blastx.2	olfactory receptor OR18 - rat	pir|S29710|S29710	67%	34	567
HNHEP41	638124	1734	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	73% 41%	736 915	635 730
HNHEZ76	618544	1738	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	28% 28% 28% 28%	357 357 357 357	19 19 19 19

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						35%	357	154
						29%	357	112
						35%	357	181
						33%	370	131
						32%	376	131
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				protein [Macaca fascicularis]		48%	125	39
HNHHA47	658743	1748	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	59% 68%	1007 1137	831 1009
HNHKI74	777856	1752	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	65%	606	343
HNHLD80	839255	1754	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	70% 51% 75%	708 554 448	538 444 401
HNHLS76	853372	1755	blastx.2	CAGH45.	sp|O15410|O15410	74%	146	316
HNHMY76	838256	1759	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	53% 61%	468 454	758 492
HNKAA76	802009	1764	blastx.2	CDNA: FLJ23338 fis, clone HEP13242.	sp|BAB15616|BAB15616	99% 60%	323 353	1492 421
HNTAF42	824082	1765	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	71%	380	673
HNTCG32	897776	1766	HMMER 2.1.1	PFAM: Sodium/hydrogen exchanger family	PF00999	244.7	178	789
			blastx.2	SODIUM/HYDROGEN EXCHANGER 6 (NA(+)/H(+) EXCHANGER 6) 1	sp|Q92581|NAH6_HUMAN	62%	13	1230
HNTNY89	886188	1767	blastx.2	(AL121845) dJ583P15.4.1 (novel protein (translation of cDNA FLJ20406 (Em:AK000413))) [Homo sapiens]	emb|CAC03671.1|	89%	158	1006
HNTRQ40	809100	1769	blastx.2	EPIDERMAL GROWTH FACTOR RECEPTOR SUBSTRATE EPS15R.	sp|Q9UBC2|Q9UBC2	81% 95% 82% 24% 37% 43% 37% 42% 49% 35% 43% 51%	195 11 1498 750 20 1567 495 202 1567 32 1398 1452	1604 451 1857 1610 247 1812 695 495 1791 292 1544 1544

						38% 38% 36% 32% 35% 40% 35% 35% 28% 57% 28% 34%	1398 1708 1657 519 1377 1540 645 1705 2972 1567 618 2405	1514 1824 1845 710 1547 1623 776 1839 3151 1608 743 2569
HOAAJ09	654862	1773	blastx.2	HYPOTHETICAL 15.4 KDA PROTEIN.	sp|Q99770|Q99770	74% 82%	787 560	563 510
HOAAL10	566867	1774	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	61% 67%	1239 1046	1030 909
HOABC12	801922	1776	blastx.2	HYPOTHETICAL PROTEIN 384D8_6.	sp|Q13391|Q13391	89% 100%	5 208	232 405
HOABH36	740758	1777	blastx.2	80 KDA MCM3-ASSOCIATED PROTEIN (GANP PROTEIN).	sp|O60318|MC3A_HUMAN	93% 100% 83% 43%	147 1078 10 915	1154 1353 177 1004
HOBNA89	604999	1778	blastx.2	microtubule-associated serine/threonine protein kinase MAST205 - mouse	pir|A54602|A54602	54%	369	7
HOBNF51	580861	1779	blastx.2	IMPORTIN BETA-3 SUBUNIT (KARYOPHERIN BETA-3 SUBUNIT) 1	sp|O00410|IMB3_HUMAN	99% 95% 20%	395 10 271	1051 414 375
HODAH24	656887	1780	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	61%	1356	1183
HODAH46	862551	1781	blastx.2	CDNA: FLJ21676 fis, clone COL09164.	sp|BAB15113|BAB15113	91%	201	608
HODAV25	787471	1782	blastx.2	PRO1914 PROTEIN.	sp|Q9UHS9|Q9UHS9	100%	72	1
HODAW64	840069	1783	blastx.2	CDNA FLJ14295 fis, clone PLACE1008426, weakly similar to 1	sp|BAB14894|BAB14894	93%	634	1263
HODAY17	806341	1784	blastx.2	FLJ00062 protein (Fragment).	sp|BAB15759|BAB15759	98%	492	1478

						100%	77	487
HODBF86	605001	1789	blastx.2	GAG POLYPROTEIN (FRAGMENT).	sp|Q9PZ45|Q9PZ45	42% 35%	225 542	437 652
HODBX93	897498	1792	blastx.2	protein BYJ15 - common tobacco (fragment)	pir|T02229|T02229	81%	50	142
HODDG72	655357	1798	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	53%	817	659
HODDJ25	824592	1799	blastx.2	PRO1038.	sp|Q9P1L0|Q9P1L0	100%	680	1519
HODDQ06	834824	1802	blastx.2	PDZ-BINDING KINASE.	sp|Q9NZK6|Q9NZK6	99%	200	1165
HODEA20	840376	1803	blastx.2	EH domain protein Reps1 - mouse	pir|T09173|T09173	83% 30%	6 6	1229 1208
HOEBI94	795312	1806	blastx.2	HNRNP 2H9A.	sp|Q9NPA7|Q9NPA7	99% 98% 37%	167 814 185	820 1158 700
HOECB33	840378	1808	blastx.2	CDNA: FLJ22362 fis, clone HRC06544.	sp|BAB15321|BAB15321	100%	10	525
HOECX21	842866	1809	blastx.2	Cd003 protein.	sp|AAG09680|AAG09680	100%	368	219
HOEDE27	825262	1810	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	48% 58% 75%	8 931 762	277 746 643
HOEEK81	844390	1811	blastx.2	CALCIUM CHANNEL GAMMA 5 SUBUNIT.	sp|Q9JJV3|Q9JJV3	75%	51	596
HOEEZ62	638833	1812	blastx.2	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 3 - human mitochondrion	pir|A00422|DNHUN3	89%	12	338
HOEFJ26	847422	1813	blastx.2	CDNA: FLJ23147 fis, clone LNG09295.	sp|BAB15557|BAB15557	76%	1201	995
HOFMF63	847423	1815	blastx.2	L6 surface protein - human	pir|A42926|A42926	88% 82%	86 409	409 690
HOFMJ65	664498	1816	blastx.2	COLLAGEN ALPHA 1(XII) CHAIN (FRAGMENT).	sp|P70560|CA1C_RAT	74%	987	1160
HOFMO16	596835	1818	HMMER 2.1.1	PFAM: 3-beta hydroxysteroid dehydrogenase/isomerase family	PF01073	68.3	149	346
			blastx.2	3 beta-hydroxy-delta 5-C27-steroid oxidoreductase.	sp|AAG37824|AAG37824	90% 83%	11 349	346 438

HOFMP62	866469	1819	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	94%	786	899
						90%	773	898
						100%	791	898
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						90%	780	899
						92%	787	900
						94%	790	900
						89%	780	896
						94%	791	898
						94%	790	897
						88%	790	897
HOFMV22	812864	1821	blastx.2	(AF177940) ion channel homolog [Homo sapiens]	gb|AAG09301.1|AF177940_1	59% 77%	46 213	210 293
HOFNY15	668259	1823	blastx.2	CDNA FLJ12701 fis, clone NT2RP1000730.	sp|BAB14234|BAB14234	89% 82%	331 18	999 353
HOFNY28	603911	1824	blastx.2	AF-1 [Homo sapiens]	gb|AAA16955.1|	59%	13	654
HOGAA41	843499	1826	blastx.2	PROTEIN TYROSINE PHOSPHATASE-LIKE PROTEIN PTPLB.	sp|Q9JLK1|Q9JLK1	93%	496	1257
HOGAB51	825278	1827	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	71%	884	1174
HOGAH40	790978	1828	blastx.2	CDNA FLJ20420 FIS, CLONE KAT02462.	sp|Q9NX63|Q9NX63	100%	164	844
HOGAP06	823364	1829	blastx.2	(AB055298) hypothetical	dbj|BAB21923.1|	70%	1445	1669

				protein [Macaca fascicularis]				
HOGAR71	722242	1831	HMMER 2.1.1	PFAM: PMP-22/EMP/MP20/Claudin family	PF00822	336	96	632
			blastx.2	CLAUDIN-7.	sp|O95471|CLD7_HUMAN	100%	87	719
HOGCC26	834792	1832	blastx.2	XPA binding protein 1.	sp|BAB17612|BAB17612	100%	19	1140
HOGCD78	610217	1833	blastx.2	CDNA: FLJ21979 fis, clone HEP06065 (Fragment).	sp|BAB15196|BAB15196	100%	217	321
						95%	428	487
						38%	632	724
						43%	636	725
						42%	664	726
						45%	667	726
						45%	667	726
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						45%	667	726
						52%	669	725
						34%	394	471
						44%	656	724
						28%	388	471
HOGCK03	847427	1834	blastx.2	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	sp|Q9SBM1|Q9SBM1	37%	741	442
						45%	394	128
						44%	394	161
						40%	346	116
						40%	316	119
						40%	316	119
						41%	322	119
						38%	394	119
						55%	316	209
						58%	316	209
						45%	594	442
						52%	316	203
						42%	316	119

						39%	322	119
						52%	316	209
						52%	316	209
						44%	316	143
						52%	316	209
						39%	316	119
						48%	316	143
						43%	316	125
						38%	322	119
						46%	597	442
						58%	316	209
						55%	316	203
						52%	316	209
						43%	310	119
						39%	316	119
						35%	708	442
						38%	594	385
						42%	603	442
						41%	594	442
						43%	594	442
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						41%	594	442
						40%	576	385
						39%	594	391
						41%	594	385
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						48%	594	442
						40%	603	442
						43%	594	436
						43%	594	442
						48%	576	442
						53%	316	239
HOGCL01	846353	1835	HMMER 2.1.1	PFAM: KOW motif	PF00467	40.2	332	442
			WUblastx.64	(AK024570) unnamed protein product [Homo sapiens]	dbj|BAB14929.1|	98%	167	814
HOHBB36	847428	1836	blastx.2	myosin I alpha chain - mouse	pir|A45438|A45438	95%	2093	3

						93%	2237	2103
HOHBC57	813392	1837	blastx.2	DJ377F16.1 (PUTATIVE NOVEL PROTEIN) (FRAGMENT).	sp|Q9Y3L0|Q9Y3L0	99%	4750	4328
HOHBO66	853375	1838	blastx.2	DED PROTEIN.	sp|Q9NY61|Q9NY61	93% 91% 50% 40% 43%	844 1397 1397 1367 1367	212 828 1278 1269 1272
HOHBZ10	836519	1839	blastx.2	CSR1.	sp|Q9UM16|Q9UM16	96% 50% 49% 46% 47% 46% 39% 43%	775 778 748 781 829 646 405 411	389 404 404 431 521 404 827 761
HONAH67	821419	1842	blastx.2	CDNA FLJ14272 fis, clone PLACE1004793, weakly similar to 1	sp|BAB14889|BAB14889	96% 94%	513 1171	1172 1338
HOOAC84	604043	1843	blastx.2	TRABECULIN-ALPHA.	sp|Q9UKP0|Q9UKP0	84% 100% 100% 29% 36%	1324 325 592 1381 1387	1482 444 690 1461 1461
HOPBP13	825243	1844	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	61%	2180	1863
HORBI80	877660	1846	blastx.2	DIPEPTIDYL-PEPTIDASE III (EC 3.4.14.4).	sp|Q9NY33|Q9NY33	99% 100%	92 30	2239 92
HORBL77	852099	1847	blastx.2	HYPOTHETICAL 24.4 KDA PROTEIN IN LPD 3'REGION (ORF4).	sp|O66114|YLP4_ZYMMO	28% 37%	221 924	787 1010
HOSEM81	846354	1850	blastx.2	(AF255648) rGAP-iso [Homo sapiens]	gb|AAG44636.1|AF255648_1	100%	1012	803
HOSEO83	847083	1851	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp|BAB13911|BAB13911	75% 48% 54%	659 456 304	769 665 414

HOSFR35	845994	1852	blastx.2	CDNA FLJ20035 FIS, CLONE COL00213.	sp|Q9NXV7|Q9NXV7	67% 63%	316 9	780 320
HOUBC29	872565	1854	blastx.2	GTP-binding protein rab2 - rat	pir|B39963|B39963	94%	763	876
HOUBG39	601696	1855	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	67%	1645	1403
HOUCD12	605006	1856	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	69%	250	555
HOUDB17	603417	1857	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	64%	687	367
HOUIG68	793749	1863	blastx.2	CDNA FLJ10808 FIS, CLONE NT2RP4000879, WEAKLY SIMILAR TO 1	sp|Q9NVC9|Q9NVC9	100%	2	355
HOVAD93	821333	1865	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp|BAB15513|BAB15513	100% 100% 100% 96% 100%	780 780 780 780 781	860 860 860 860 858
HOVAJ68	741098	1869	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	73%	1612	1493
HOVAW46	892162	1870	blastx.2	PUTATIVE P150.	sp|O00363|O00363	46% 40% 47% 37% 66% 41%	697 1030 1152 1316 768 395	359 773 1009 1125 697 345
HOVBB19	843768	1871	blastx.2	catalase (EC 1.11.1.6) - Campylobacter jejuni	pir|I40767|I40767	97%	307	197
HOVBI16	581097	1874	blastx.2	TRANSCRIPTION INTERMEDIARY FACTOR 1-BETA (NUCLEAR COREPRESSOR KAP-1) (KRAB-ASSOCIATED PROTEIN 1).	sp|Q13263|TF1B_HUMAN	87%	202	723
HOVCF30	638142	1877	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	76% 74% 100% 100%	759 759 807 807	908 908 908 908

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						94%	805	909
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						94%	808	909
HOVCO53	564632	1880	blastx.2	CDNA FLJ13381 fis, clone PLACE1001010.	sp|BAB14576|BAB14576	52%	1321	1127
HPBDE33	853660	1884	blastx.2	hypothetical protein DKFZp564O0823.1 - human	pir|T12458|T12458	97%	257	985

HPBDE33	897372	1885	blastx.2	hypothetical protein DKFZp564O0823.1 - human	pir|T12458|T12458	98%	257	985
HPCAG17	757836	1887	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	64%	1306	1013
HPCAG17	863943	1888	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	68%	1173	880
HPDDQ28	566793	1891	blastx.2	PUTATIVE G PROTEIN-COUPLED RECEPTOR (CDNA FLJ10899 FIS, CLONE 1	sp|O95357|O95357	100% 98%	10 231	231 440
HPDDT14	580867	1892	blastx.2	(AB055298) hypothetical protein [Macaca fascicularis]	dbj|BAB21923.1|	71%	193	5
HPFCP75	581083	1899	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	64% 64% 55%	682 833 22	831 949 81
HPFDB66	829318	1900	WUblastx.64	(AL133353) bA483F11.3 (CGI-32 protein) [Homo sapiens]	emb|CAB88199.1|	100%	102	920
HPFDD28	824856	1901	blastx.2	PRO1722.	sp|Q9P195|Q9P195	69% 70% 66%	815 622 672	660 551 628
HPIAK27	852658	1904	blastx.2	(AP001309) gene_id:MUO10.12~unknown protein [Arabidopsis thaliana]	dbj|BAB02585.1|	36% 36%	718 253	1191 561
HPIAL55	847429	1905	blastx.2	CG12795 PROTEIN.	sp|Q9VQQ7|Q9VQQ7	62% 28% 55% 68% 50%	82 598 455 1088 923	231 1002 568 1135 970
HPIAT18	877663	1906	blastx.2	PRO2852.	sp|AAG35505|AAG35505	74% 84%	3735 3823	3571 3728
HPIAZ52	801924	1907	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	53% 51% 63% 48% 59% 44%	670 706 770 2453 905 2468	1029 915 916 2602 970 2602

						41% 69% 31% 46% 54% 46% 47% 55% 52%	900 975 2385 2470 2112 2090 2163 1905 1960	1034 1013 2603 2559 1894 1788 1987 1825 1898
HPIBA07	886191	1908	blastx.2	hypothetical protein DKFZp761D081.1 - human	pir|T46904|T46904	94%	1048	1482
HPIBA24	840379	1909	blastx.2	CDNA FLJ14356 fis, clone Y79AA1002103, weakly similar to 1	sp|BAB14916|BAB14916	49% 48% 49% 66%	21 672 381 21	1805 1862 1193 146
HPIBI40	588944	1910	blastx.2	CENTROMERE/KINETOCHORE PROTEIN ZW10 HOMOLOG.	sp|O43264|ZW10_HUMAN	98% 99%	336 1	884 339
HPJAB75	841653	1913	blastx.2	(AF336887) FKSG60 [Homo sapiens]	gb|AAK01738.1|AF336887_1	99%	1581	1210
HPJAN76	826185	1914	blastx.2	PUTATIVE G PROTEIN-COUPLED RECEPTOR GPR39.	sp|O43194|GP39_HUMAN	100% 29%	328 245	828 316
HPJAN76	854893	1915	blastx.2	PUTATIVE G PROTEIN-COUPLED RECEPTOR GPR39.	sp|O43194|GP39_HUMAN	100% 29%	328 245	828 316
HPJAU94	826719	1916	blastx.2	L1 ELEMENT L1.21 P40 PROTEIN.	sp|O00371|O00371	55% 83%	3529 3944	3966 4159
HPJAW78	812766	1917	blastx.2	GRANULE CELL ANTISERUM POSITIVE 8 (GCAP1) (FRAGMENT).	sp|Q61402|Q61402	41% 31% 41% 37% 33% 37%	94 88 261 261 316 254	267 267 73 103 86 81
HPJBS16	608307	1918	WUblastx.64	(AK025047) unnamed protein product [Homo sapiens]	dbj|BAB15056.1|	61%	1663	1391
HPJBU04	798101	1919	blastx.2	CDNA: FLJ21463 fis, clone	sp|BAB15071|BAB15071	68%	866	540

				COL04765.				
HPJCP75	886192	1921	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	67% 41%	1775 832	1482 527
HPJCV35	827317	1922	blastx.2	CDC42-BINDING PROTEIN KINASE BETA.	sp|Q9Y5S2|Q9Y5S2	94% 100%	2685 533	2951 610
HPJCX13	852869	1923	HMMER 2.1.1	PFAM: Reverse transcriptase (RNA-dependent DNA polymerase)	PF00078	307.8	3321	4148
			blastx.2	hypothetical protein (L1H 3' region) - human	pir|B34087|B34087	96%	4105	266
HPMBT05	658715	1927	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14287|Q14287	85% 73%	403 491	483 592
HPMDD27	830748	1932	blastx.2	(AF205218) NS1-binding protein-like protein [Homo sapiens]	gb|AAG43485.1|	99%	2	1417
HPMDF45	638148	1933	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	68% 55%	1697 1662	2002 1721
HPMDP57	567303	1934	blastx.2	PRO2550.	sp|AAG35515|AAG35515	68% 64% 80%	1510 1286 1514	1211 1074 1455
HPMEG72	795709	1935	blastx.2	ORF2-LIKE PROTEIN (FRAGMENT).	sp|O00549|O00549	66%	1844	2056
HPMFM70	756931	1936	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	75% 64%	2277 2108	2104 1953
HPMFP48	597457	1937	blastx.2	PRO1722.	sp|Q9P195|Q9P195	69% 66%	1130 987	975 853
HPMFW01	844865	1938	blastx.2	PUTATIVE LIPID KINASE (CDNA FLJ10842 FIS, CLONE NT2RP4001343).	sp|Q9NP48|Q9NP48	97%	973	1113
HPMGW43	830452	1940	blastx.2	vesicle-associated membrane protein-associated protein B - human	pir|JG0186|JG0186	96% 100%	59 31	487 72
HPMKB09	900362	1942	blastx.2	SRC HOMOLOGY 3 DOMAIN-CONTAINING PROTEIN HIP-55 (DREBRIN F).	sp|Q9UJU6|Q9UJU6	100%	117	1406

HPMSH26	780109	1943	blastx.2	(AJ251383) Nogo-A protein [Homo sapiens]	emb|CAB99248.1|	69% 70%	1592 1748	1014 1578
HPMSH96	610023	1944	blastx.2	GLUTATHIONE TRANSFERASE OMEGA 1 (EC 2.5.1.18) (GSTO 1-1).	sp|P78417|GTO1_HUMAN	88%	1203	1505
HPQAJ27	782957	1946	blastx.2	peptidyl-prolyl cis-trans isomerase NMB0281 [imported] - Neisseria meningitidis (group B strain MD58)	pir|B81216|B81216	76% 56% 59%	973 1370 1179	683 975 1084
HPQAN50	788813	1947	blastx.2	ORF2-LIKE PROTEIN (FRAGMENT).	sp|O00549|O00549	39% 34% 29% 41% 60%	1285 1151 585 1151 163	590 222 10 855 119
HPRAD30	805969	1958	blastx.2	PRO2738.	sp|Q9P1C6|Q9P1C6	52%	2465	2265
HPRCC91	638151	1959	blastx.2	(AL158167) bA534G20.4 (supervillin) [Homo sapiens]	emb|CAC19653.1|	100%	2	97
HPRCF50	638153	1961	blastx.2	PRO2550.	sp|AAG35515|AAG35515	61% 66% 46%	1614 1787 1615	1790 1912 1710
HPRCS59	601523	1964	blastx.2	HYPOTHETICAL 38.7 KDA PROTEIN.	sp|Q63775|Q63775	30%	749	189
HPRCT73	610024	1965	blastx.2	DJ104A17.2 (NOVEL PROTEIN (ORTHOLOG OF RAT 1	sp|Q9NPZ5|Q9NPZ5	89% 96%	1476 1231	1300 1145
HPTRE80	884167	1967	blastx.2	SCO2 PROTEIN HOMOLOG PRECURSOR.	sp|O43819|SCO2_HUMAN	100%	779	39
HPTRI42	655362	1968	blastx.2	CDNA FLJ13853 fis, clone THYRO1000951, weakly similar to 1	sp|BAB14722|BAB14722	99%	3	662
HPTTI65	612865	1972	blastx.2	SIMILAR TO RING-H2 FINGER PROTEIN RHA1A.	sp|Q9SNH1|Q9SNH1	73%	1172	1071
HPTTT62	561954	1973	blastx.2	Hypothetical 85.5 kDa protein (Fragment).	sp|CAC09438|CAC09438	100%	8	175
HPTVH24	831983	1974	blastx.2	CDNA FLJ14038 fis, clone HEMBA1005206.	sp|BAB14826|BAB14826	99%	3	974

HPTVH59	695753	1975	blastx.2	CG15021 PROTEIN.	sp|Q9VZC2|Q9VZC2	34%	22	447
HPTVI96	636064	1977	blastx.2	CDNA: FLJ22861 fis, clone KAT01850.	sp|BAB15494|BAB15494	100%	42	416
HPVAA15	783074	1978	blastx.2	ATP-BINDING CASSETTE PROTEIN (FRAGMENT).	sp|Q9JL38|Q9JL38	57% 59%	487 418	849 483
HPWAS27	536008	1984	blastx.2	HSPC093 (FRAGMENT).	sp|Q9P0E3|Q9P0E3	65% 40%	512 1042	625 1146
HPWAV82	830084	1986	blastx.2	PRO2550.	sp|AAG35515|AAG35515	69% 78%	104 3	229 101
HPWBA36	840380	1987	blastx.2	PRO2550.	sp|AAG35515|AAG35515	60% 54% 38%	1401 1183 1403	1219 1073 1152
HPWTF23	843700	1988	HMMER 2.1.1	PFAM: TSC-22/dip/bun family	PF01166	146.4	442	621
			blastx.2	TSC-22-LIKE PROTEIN.	sp|Q9UBN5|Q9UBN5	100%	271	672
HPWTF23	844775	1989	HMMER 2.1.1	PFAM: TSC-22/dip/bun family	PF01166	146.4	442	621
			blastx.2	TSC-22-LIKE PROTEIN.	sp|Q9UBN5|Q9UBN5	100%	271	672
HPWTF53	844737	1990	blastx.2	U2 SMALL NUCLEAR RIBONUCLEOPROTEIN AUXILIARY FACTOR 35 1	sp|Q15696|U2R2_HUMAN	100%	24	422
HRAAC36	798104	1994	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	76% 56%	821 670	669 548
HRAAF59	847086	1995	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	56%	1519	1247
HRAAG89	621271	1996	blastx.2	Hypothetical 45.1 kDa protein.	sp|BAB12134|BAB12134	93%	2	187
HRAAZ12	834637	1998	blastx.2	Neuropilin-2a(17).	sp|AAG41897|AAG41897	100% 96% 80% 100% 50%	901 579 385 1361 863	1356 878 579 1435 946
HRABP28	823344	2000	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	40% 55%	1302 1136	1111 1035
HRABU56	621381	2001	blastx.2	RNA-BINDING PROTEIN.	sp|O75876|O75876	90%	105	320
HRABZ80	562230	2002	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	45%	1302	1000

HRACB01	637647	2003	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	52% 52%	1344 1423	1135 1349
HRACI39	840461	2004	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	62% 58%	1347 997	1156 881
HRADU15	801926	2005	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp|BAB14900|BAB14900	74% 75%	814 645	638 586
HRDAH04	651356	2006	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	56% 63%	1514 1336	1329 1229
HRDBA20	637709	2007	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	78% 46%	1290 1049	1057 972
HRDBD32	637710	2008	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	78% 46%	1290 1049	1057 972
HRDBL01	631169	2009	blastx.2	PRO1722.	sp|Q9P195|Q9P195	65%	934	755
HRDDM85	799542	2010	blastx.2	POT. ORF VI (FRAGMENT).	sp|O95662|O95662	62% 57% 60%	538 575 1034	1077 730 1096
HRDEJ86	695755	2012	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	76%	839	627
HRDFE30	750872	2014	blastx.2	(AL121673) bA305P22.1 (novel protein) [Homo sapiens]	emb|CAC08553.1|	95% 100%	141 533	548 823
HRDFT83	606799	2015	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	63% 70% 61% 41% 84% 68% 41% 56% 41% 63% 60% 58% 47% 37% 77% 60%	948 942 932 629 584 779 947 709 778 442 439 387 948 522 700 435	664 769 768 294 528 714 768 614 641 377 380 337 892 451 674 391
HRGCA01	589970	2016	blastx.2	PRO2550.	sp|AAG35515|AAG35515	56%	1318	989

HRGCA06	866189	2017	HMMER 2.1.1	PFAM: Ribosomal protein S16	PF00886	69.1	143	325
			blastx.2	MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S16 (MRP-S16).	sp|Q9Y3D3|Q9Y3D3	99%	74	484
HRGSE38	898233	2018	WUblastx.64	(AB029042) ATPase inhibitor precursor [Homo sapiens]	dbj|BAA88422.1|	83%	77	367
HRLME03	610614	2020	blastx.2	PRO0956.	sp|AAG35480|AAG35480	70% 39%	117 220	46 122
HROAP64	835467	2022	blastx.2	(AY012159) virion-associated nuclear-shuttling protein [Mus musculus]	gb|AAG42155.1|	96%	33	119
HROAS35	827304	2023	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain III - human 1	pir|A00482|OTHU3	91%	483	881
HROBJ10	836368	2025	blastx.2	RETINOIC ACID-INDUCED PROTEIN 2.	sp|Q9Y5P3|RAI2_HUMAN	89% 96%	1853 1054	1011 671
HRTAE88	822964	2029	blastx.2	MARINER TRANSPOSASE.	sp|Q13579|Q13579	76%	2579	2845
HRTAP63	780698	2030	blastx.2	CGI-127 PROTEIN.	sp|Q9Y3C9|Q9Y3C9	100%	498	860
HSAAN03	599334	2032	blastx.2	PRO2550.	sp|AAG35515|AAG35515	70% 70% 72%	1130 924 676	921 832 602
HSAAS05	703244	2033	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	55% 54%	1419 1487	1216 1416
HSAAW13	821334	2034	blastx.2	3',5'-cyclic-nucleotide phosphodiesterase (EC 3.1.4.17) 8A, 1	pir|JW0088|JW0088	99%	1	1113
HSATA61	801927	2038	blastx.2	CG3781 PROTEIN.	sp|Q9W422|Q9W422	49%	18	206
HSATG66	824903	2039	blastx.2	EXP35.	sp|Q9NR56|Q9NR56	93% 41%	19 13	615 324
HSATI91	838829	2040	blastx.2	probable pol polyprotein-related protein 4 - rat	pir|S21348|S21348	36% 46% 38% 69%	345 509 730 83	22 369 518 45
HSATR50	826398	2041	blastx.2	U6 SNRNA-ASSOCIATED SM-LIKE PROTEIN LSM8.	sp|O95777|LSM8_HUMAN	100%	397	483
HSATT82	566784	2042	blastx.2	PRO1722.	sp|Q9P195|Q9P195	67%	957	769

						66%	1006	962
HSATW19	637658	2043	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	73% 68%	692 493	504 389
HSATW67	604938	2044	blastx.2	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	pir|T29097|T29097	82% 63%	436 653	119 441
HSATZ02	490895	2045	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	63% 87%	1023 1025	730 1002
HSAUB89	600369	2047	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	60% 76%	348 560	551 634
HSAUI53	866191	2048	blastx.2	retrovirus-related reverse transcriptase pseudogene - human	pir|A25313|GNHUL1	36% 42% 36% 31% 69%	960 356 757 1037 106	412 9 362 675 68
HSAUV74	866193	2049	blastx.2	PRO1902 PROTEIN.	sp|Q9UHT1|Q9UHT1	62%	827	693
HSAUX39	823161	2050	blastx.2	ZINC FINGER PROTEIN 62 (FRAGMENT).	sp|Q62510|Q62510	56% 64% 63% 52% 50% 53% 59% 45% 44% 45% 50% 43% 41% 33%	1223 1367 1388 1280 1244 1274 1412 1235 1172 1244 1343 1199 1319 960	1987 1981 1981 1987 1987 1981 1987 1978 1981 1981 1981 1726 1645 1040
HSAVE52	600370	2052	blastx.2	PRO2852.	sp|AAG35505|AAG35505	71% 55%	1366 1419	1175 1366
HSAVH32	603367	2053	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	64% 72% 35%	847 678 851	659 547 684
HSAVO11	566467	2055	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	60% 63%	1618 1618	1301 1439

						59% 50% 59% 68% 54% 41% 47%	1599 1349 1379 1449 1257 1448 1315	1438 1194 1299 1384 1192 1341 1265
HSAVO17	738007	2056	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	73%	1440	1135
HSAVQ13	606818	2057	blastx.2	Hypothetical 12.9 kDa protein.	sp|BAB12124|BAB12124	72% 68%	406 494	471 541
HSAVR85	786185	2058	blastx.2	PRO2870.	sp|AAG35506|AAG35506	100%	3791	3546
HSAVY92	606808	2059	blastx.2	CDNA: FLJ23054 fis, clone LNG03193.	sp|BAB15533|BAB15533	100%	19	123
HSAVZ05	690151	2060	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	75% 42% 65% 83%	21 1467 1568 1573	260 1523 1233 1538
HSAWB58	738018	2061	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	69% 85% 81%	1684 1442 1509	1490 1380 1444
HSAWH36	581087	2062	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	71%	1109	867
HSAWM20	606840	2063	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	54% 80%	620 624	273 595
HSAWM74	866195	2064	blastx.2	(AB030711) MAP1 light chain 3 related protein [Homo sapiens]	dbj|BAB21549.1|	100%	8	85
HSAWX70	872498	2065	blastx.2	L1 ELEMENT L1.20 P40 PROTEIN.	sp|O00369|O00369	77% 43% 30%	1028 1309 1314	300 1088 1015
HSAXI10	598726	2067	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	80%	808	512
HSAXL49	606826	2068	blastx.2	PRO2550.	sp|AAG35515|AAG35515	75% 63%	890 742	717 572
HSAXL82	566801	2069	blastx.2	signal peptidase 25k chain - dog	pir|A55012|A55012	96%	533	625

HSAXS06	668260	2072	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	66% 75%	1121 955	954 824
HSAYL24	608642	2074	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	75%	1061	930
HSBAJ47	842694	2078	blastx.2	Sphingosine-1-phosphatase.	sp|CAC17772|CAC17772	100%	1	237
HSDDC55	663277	2080	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	58% 82%	490 743	741 793
HSDEA26	822812	2081	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	68%	1128	1421
HSDGH56	853379	2087	blastx.2	HYPOTHETICAL 15.4 KDA PROTEIN.	sp|Q99770|Q99770	77% 64%	1100 873	876 823
HSDGM01	608310	2088	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	66% 65%	722 852	552 721
HSDGM42	870143	2089	blastx.2	EG:165H7.3 PROTEIN.	sp|O46055|O46055	25% 23%	363 363	2585 2492
HSDGM42	824916	2090	blastx.2	EG:165H7.3 PROTEIN.	sp|O46055|O46055	24% 23%	362 362	2584 2491
HSDGM42	852473	2091	blastx.2	EG:165H7.3 PROTEIN.	sp|O46055|O46055	28%	1460	660
HSDGM42	861925	2092	blastx.2	EG:165H7.3 PROTEIN.	sp|O46055|O46055	25% 23%	423 423	2645 2552
HSDGM42	865828	2093	blastx.2	EG:165H7.3 PROTEIN.	sp|O46055|O46055	25% 23%	423 423	2645 2552
HSDGM42	886748	2094	blastx.2	EG:165H7.3 PROTEIN.	sp|O46055|O46055	25% 23%	423 423	2645 2552
HSDHD05	570824	2095	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	94% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	714 720 720 720 720 720 720 720 720 720 720 720 720	815 815 815 815 815 815 815 815 815 815 815 815 815

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						96%	716	814
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HSDJC96	753284	2099	blastx.2	HYPOTHETICAL 5.6 KDA PROTEIN (FRAGMENT).	sp|Q9Y6A3|Q9Y6A3	100%	1946	1800
HSDJF04	695756	2101	blastx.2	UNKNOWN.	sp|O95890|O95890	95%	2	421
HSDJG47	847325	2102	blastx.2	CDNA: FLJ21857 fis, clone HEP02294.	sp|BAB15156|BAB15156	98%	59	1180
HSDJH72	805971	2103	blastx.2	HYPOTHETICAL 15.4 KDA PROTEIN.	sp|Q99770|Q99770	68% 66%	1739 1500	1485 1447
HSDJL07	895387	2104	blastx.2	CDNA: FLJ23147 fis, clone LNG09295.	sp|BAB15557|BAB15557	64% 82%	764 1481	898 1290
HSDJR49	741079	2105	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	67% 70% 57% 61% 62% 72% 40%	569 893 753 982 1124 991 744	742 1015 884 1122 1210 1044 884
HSDJV24	806246	2106	blastx.2	DJ108K11.3 (SIMILAR TO YEAST SUPPRESSOR PROTEIN SRP40).	sp|O95909|O95909	75%	647	1465
HSDJV40	623716	2107	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	48% 62% 40% 41% 45% 40% 37% 34%	1589 1240 1519 1279 1555 1368 1049 990	1038 977 1094 977 1409 1258 978 877
HSDKA64	600372	2108	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	68% 71%	1581 1340	1342 1278
HSDKF96	839730	2110	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	63%	1672	1412
HSDZO08	827460	2111	blastx.2	I-1 RECEPTOR CANDIDATE PROTEIN.	sp|Q9UES6|Q9UES6	87% 78% 27%	182 1 1	1648 558 309
HSEBB18	877813	2113	blastx.2	CDNA FLJ20005 FIS, CLONE ADKA02526.	sp|Q9NXX4|Q9NXX4	99%	476	898
HSFAM19	691371	2114	blastx.2	VOLTAGE-GATED	sp|O95259|O95259	98%	76	510

				POTASSIUM CHANNEL EAGB.				
HSHAG54	834781	2115	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	76% 61%	971 775	780 659
HSHAS72	835991	2116	HMMER 2.1.1	PFAM: G-protein gamma subunit.	PF00631	139.1	225	422
			blastx.2	GUANINE NUCLEOTIDE-BINDING PROTEIN G(I)/G(S)/G(O) 1	sp|Q9UBI6|GBGC_HUMAN	100%	210	422
HSHAX04	812178	2117	blastx.2	peptidylprolyl isomerase (EC 5.2.1.8) A - human	pir|S66681|S66681	100%	14	916
HSHBT15	581088	2118	blastx.2	ZINC FINGER PROTEIN SNAI1 (SNAIL PROTEIN HOMOLOG) (SNA PROTEIN).	sp|O95863|SNAI_HUMAN	90% 100% 79%	10 570 458	570 686 529
HSHCE85	855969	2119	blastx.2	DJ167A19.4 (NOVEL PROTEIN).	sp|Q9Y546|Q9Y546	100%	202	1224
HSIAC81	783076	2120	blastx.2	(AB017913) cytosolic beta-glucosidase-like protein-1 [Homo sapiens]	dbj|BAB18741.1|	99%	8	1261
HSIAP01	897538	2122	blastx.2	CDNA FLJ20124 FIS, CLONE COL06056.	sp|Q9NXP8|Q9NXP8	96% 92% 71% 28%	71 590 607 218	613 673 732 535
HSIDZ25	658721	2125	blastx.2	Hypothetical 15.8 kDa protein.	sp|AAG17270|AAG17270	80% 37%	1689 1366	1597 1280
HSIEB64	651359	2126	blastx.2	PRO1546.	sp|Q9P1J1|Q9P1J1	53% 60% 70%	1741 1860 1718	1875 1949 1747
HSIFO61	845026	2128	blastx.2	APOPTOSIS-INDUCING FACTOR AIF.	sp|O95831|O95831	100%	95	1933
HSIFO61	852715	2129	blastx.2	APOPTOSIS-INDUCING FACTOR AIF.	sp|O95831|O95831	100%	183	2021
HSIGC63	877486	2130	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	59%	1746	1354
HSIGM95	840382	2131	blastx.2	PRO2852.	sp|AAG35505|AAG35505	77%	942	823

						80% 75%	818 754	759 707
HSJAN83	825132	2133	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp|BAB13911|BAB13911	77% 77% 87% 66% 57%	960 1084 839 969 827	841 965 768 898 771
HSJAQ10	853383	2134	blastx.2	PEROXISOMAL MEMBRANE PROTEIN PMP34 (34 KDA PEROXISOMAL 1	sp|O43808|PM34_HUMAN	100%	11	187
HSJAR59	846364	2135	blastx.2	translation elongation factor eEF-1 alpha-1 chain - human	pir|B24977|EFHU1	100%	16	228
HSJAU93	702019	2136	blastx.2	CDNA FLJ10709 FIS, CLONE NT2RP3000869.	sp|Q9NVI7|Q9NVI7	84%	123	551
HSKHV81	841590	2146	blastx.2	PRO0117 PROTEIN.	sp|Q9UI85|Q9UI85	63%	953	798
HSKYR49	806548	2148	blastx.2	(AF328140) cdk3-binding protein ik3-1 [Mus musculus]	gb|AAG42916.1|AF328140_1	79%	10	450
HSKYU81	899335	2149	blastx.2	SH3 DOMAIN-BINDING PROTEIN SNP70.	sp|Q9Y2W2|Q9Y2W2	100% 99% 44% 55% 52% 41% 44% 50% 43% 44% 25% 22% 19% 32%	536 6 629 545 545 512 797 797 545 575 132 240 396 862	1276 533 1237 778 766 781 973 985 673 661 299 482 548 945
HSKYY92	853384	2150	blastx.2	UBIQUITOUS TPR-MOTIF PROTEIN Y ISOFORM (FRAGMENT).	sp|Q9NR08|Q9NR08	60% 64%	1268 1212	1456 1262
HSLAB11	823825	2151	blastx.2	PRO2550.	sp|AAG35515|AAG35515	76%	3376	3074
HSLAS96	740764	2152	blastx.2	PRO2550.	sp|AAG35515|AAG35515	69%	1408	1175

						64%	1173	1075
HSLAW59	637669	2153	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	66% 72%	427 579	284 460
HSLCH54	562018	2154	blastx.2	PLEXIN A3 PRECURSOR (PLEXIN 4) (TRANSMEMBRANE PROTEIN 1	sp|P51805|PLX4_HUMAN	100% 97% 31%	9 445 278	446 570 400
HSLCH57	899415	2155	blastx.2	SREBP cleavage activating protein - Chinese hamster	pir|T18526|T18526	95% 39% 43%	1408 658 265	2205 774 459
HSLCI86	737626	2156	blastx.2	estrogen sulfotransferase (EC 2.8.2.-) - human	pir|JC2229|JC2229	84% 33%	602 493	1090 555
HSLCS31	604046	2157	HMMER 2.1.1	PFAM: PPR repeat	PF01535	22.6	493	597
			WUblastx.64	(AK022660) unnamed protein product [Homo sapiens]	dbj|BAB14162.1|	98% 100%	454 826	828 1047
HSLCS34	751324	2158	blastx.2	CDNA FLJ10785 FIS, CLONE NT2RP4000457, WEAKLY SIMILAR TO 1	sp|Q9NVE5|Q9NVE5	92% 70%	375 40	1013 582
HSLCV16	772948	2159	blastx.2	(AL136768) hypothetical protein [Homo sapiens]	emb|CAB66702.1|	99% 87%	1 1537	552 1698
HSLDW54	853386	2160	blastx.2	probable pol polyprotein-related protein 4 - rat	pir|S21348|S21348	34% 44% 52% 42%	1115 625 732 895	738 452 631 833
HSLEC18	722249	2161	blastx.2	CDNA FLJ12116 fis, clone MAMMA1000069.	sp|BAB13977|BAB13977	99%	9	1319
HSLEG59	637671	2162	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14287|Q14287	50% 44% 20%	1150 968 745	941 807 614
HSLFR59	853388	2163	blastx.2	hypothetical protein DKFZp434L0130.1 - human	pir|T46471|T46471	99% 86%	987 877	1481 987
HSLGD91	883491	2164	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	72% 75%	816 752	926 817
HSNAQ52	600402	2172	blastx.2	(AB055263) hypothetical protein [Macaca fascicularis]	dbj|BAB21887.1|	81% 85%	142 197	95 156

HSNAW06	580248	2174	blastx.2	Hypothetical 9.4 kDa protein.	sp|BAB12379|BAB12379	61%	219	413
HSNBQ36	784994	2178	blastx.2	CDNA FLJ11128 FIS, CLONE PLACE1006236.	sp|Q9NUU5|Q9NUU5	95%	358	756
HSNBS39	617125	2179	blastx.2	hypothetical protein 3 - human	pir|E41925|E41925	33% 52% 72%	275 82 295	93 26 263
HSOAT44	847357	2181	blastx.2	CDNA: FLJ20871 fis, clone ADKA02569.	sp|BAB14920|BAB14920	100%	10	195
HSOBH11	794000	2183	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	52% 51% 54%	814 578 645	641 498 580
HSOBW65	778388	2185	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14288|Q14288	67% 64%	636 160	142 110
HSPAA89	825099	2186	blastx.2	proline-rich protein MP2 - mouse (fragment)	pir|A24264|A24264	39% 39% 42%	1144 1144 210	641 641 148
HSQBL20	780518	2196	blastx.2	(AF315506) ARG134 protein [Homo sapiens]	gb|AAK01365.1|	100%	183	836
HSQCY74	886110	2198	blastx.2	DJ383J4.4 (A novel protein similar to Aspartyl-TRNA synthetase) (Fragment).	sp|CAC10472|CAC10472	99%	10	1455
HSRAA81	695759	2205	blastx.2	hypothetical protein DKFZp547I194.1 - human (fragment)	pir|T51882|T51882	90% 100%	9 727	749 1086
HSRAO56	719816	2206	blastx.2	Hypothetical 14.2 kDa protein.	sp|AAG17216|AAG17216	72% 68%	1592 1419	1416 1324
HSRAV28	581102	2207	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	78%	820	524
HSRDW57	562019	2209	blastx.2	(AX068262) unnamed protein product [Homo sapiens]	emb|CAC27247.1|	100% 92% 83%	8 262 485	277 495 520
HSREC72	601368	2210	blastx.2	PRO2550.	sp|AAG35515|AAG35515	69% 77%	783 877	625 785
HSREG42	839481	2211	blastx.2	PXN PROTEIN.	sp|Q9VZZ4|Q9VZZ4	48%	6	1484
HSRFD18	840771	2212	blastx.2	CDNA FLJ13033 fis, clone NT2RP3001126.	sp|BAB14402|BAB14402	89%	413	559

HSRGZ11	801929	2213	blastx.2	(AF308301) serologically defined breast cancer antigen NY-BR-87 [Homo sapiens]	gb|AAG48268.1|AF308301_1	90%	234	395
HSRHB59	840384	2214	blastx.2	CDNA FLJ20625 FIS, CLONE KAT04008.	sp|Q9NWT0|Q9NWT0	100% 100%	123 8	308 121
HSSCC66	559402	2216	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	54% 57%	345 615	614 671
HSSEL28	838618	2221	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	63%	731	1042
HSSFP88	658726	2222	HMMER 2.1.1	PFAM: Zinc finger, C3HC4 type (RING finger)	PF00097	36.1	828	953
			blastx.2	CDNA: FLJ21676 fis, clone COL09164.	sp|BAB15113|BAB15113	100%	141	1190
HSSGS62	741162	2223	blastx.2	Hypothetical 12.9 kDa protein.	sp|BAB12124|BAB12124	60% 60%	899 200	762 141
HSSJA23	847089	2224	blastx.2	(AC023912) acetyl-coA dehydrogenase, putative [Arabidopsis thaliana]	gb|AAF63817.1|	63% 68%	272 1382	682 1552
HSSJF26	567431	2225	blastx.2	Hypothetical 14.2 kDa protein.	sp|AAG17216|AAG17216	60% 76%	401 600	580 689
HSSJM47	796096	2227	blastx.2	STROMAL ANTIGEN 3, (STAG3).	sp|Q9UJ98|Q9UJ98	96% 75% 83%	899 527 129	994 637 221
HSSJW30	850566	2229	blastx.2	ANON-34EA PROTEIN.	sp|Q9V414|Q9V414	29% 44%	263 136	694 243
HSSMY35	740765	2231	blastx.2	HYPOTHETICAL 20.2 KDA PROTEIN (FRAGMENT).	sp|Q9NQA3|Q9NQA3	94%	202	519
HSTAL93	841863	2232	blastx.2	low density lipoprotein receptor related protein - human	pir|JE0372|JE0372	98% 35% 35% 35%	287 284 299 287	799 787 787 637
HSUAF06	863206	2234	blastx.2	pol polyprotein - Cas-Br-E murine leukemia virus (fragment)	pir|A26103|A26103	47% 50%	630 1194	944 1307
HSUBX67	751266	2235	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	57% 61%	796 624	608 499

HSVAC05	836051	2237	blastx.2	CDNA: FLJ22294 fis, clone HRC04426.	sp|BAB15291|BAB15291	64%	688	539
HSVBA83	812059	2242	blastx.2	ARG/ABL-INTERACTING PROTEIN ARGBP2B (FRAGMENT).	sp|O60593|O60593	98%	313	516
HSVBY62	637113	2245	blastx.2	HSPC005 PROTEIN (C11ORF10).	sp|Q9Y2Q7|Q9Y2Q7	100%	35	271
HSWAZ17	637682	2248	blastx.2	(AX060313) unnamed protein product [Homo sapiens]	emb|CAC24876.1|	56%	490	732
HSXAI44	590743	2250	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	68%	1037	828
HSXAS59	838072	2252	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	54% 81%	1526 1303	1305 1256
HSXAY60	737753	2254	blastx.2	PRO1847.	sp|Q9P191|Q9P191	81% 45%	1685 1764	1605 1699
HSXBB78	600373	2255	blastx.2	CDNA FLJ11556 fis, clone HEMBA1003079.	sp|BAB13856|BAB13856	41% 58%	802 644	632 579
HSXCA83	830046	2256	blastx.2	TANK BINDING KINASE TBK1 (NF-KB-ACTIVATING KINASE NAK).	sp|Q9UHD2|Q9UHD2	94% 98% 39%	109 1215 1121	1197 1382 1219
HSXCX20	658728	2257	blastx.2	(AF295367) G-protein coupled receptor GPR91 [Mus 1	gb|AAK01867.1|AF295367_1	68% 71%	61 891	942 1007
HSXFG21	805972	2258	blastx.2	EG:114D9.2 PROTEIN.	sp|Q9W5A4|Q9W5A4	45%	298	792
HSXFH82	699863	2259	blastx.2	HYPOTHETICAL 16.3 KDA PROTEIN.	sp|Q9MZZ7|Q9MZZ7	73% 36%	1146 1117	1598 1611
HSYBR79	873848	2261	blastx.2	vesicle-associated membrane protein-associated protein B - human	pir|JG0186|JG0186	100%	193	921
HSYBV44	753253	2262	blastx.2	H+-transporting ATP synthase (EC 3.6.1.34) protein 6 - human mitochondrion	pir|A01049|PWHU6	94%	84	761
HSYBZ94	799543	2263	blastx.2	RETINAL DEGENERATION B PROTEIN (PROBABLE CALCIUM TRANSPORTER 1	sp|O00562|O00562	81% 98% 98% 79% 23%	21 2388 2168 1670 21	2174 2924 2392 1813 455

						36% 33% 36% 34%	1153 1313 2301 1895	1275 1399 2357 1999
HT3AB13	841680	2264	blastx.2	LONG FORM TRANSCRIPTION FACTOR C-MAF.	sp|O75444|O75444	96% 97% 36% 34% 32% 39%	250 719 589 592 1139 1141	630 847 771 696 1267 1221
HT4SB02	837688	2265	HMMER 2.1.1	PFAM: emp24/gp25L/p24 family	PF01105	231.4	78	521
			blastx.2	protein trafficking protein tmp21-I - human	pir|G01159|G01159	100% 100%	84 21	524 74
HT4SB81	756723	2267	blastx.2	TIC.	sp|O95621|O95621	83% 97% 95% 41%	185 562 3 19	631 789 194 54
HT4SB81	844512	2268	blastx.2	TIC.	sp|O95621|O95621	98% 95% 57% 41%	185 3 872 19	790 194 913 54
HT4SB81	858154	2269	blastx.2	TIC.	sp|O95621|O95621	97% 95% 57% 41%	185 3 872 19	790 194 913 54
HTABF81	610040	2271	blastx.2	NON-KINASE CDC42 EFFECTOR PROTEIN SPEC2.	sp|Q9NRR3|Q9NRR3	100%	48	299
HTACX63	602694	2272	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	56% 78% 65%	1082 825 919	921 784 860
HTADC63	842131	2273	blastx.2	(AL136693) hypothetical protein [Homo sapiens]	emb|CAB66628.1|	47% 44%	141 560	557 790
HTADO61	695760	2274	blastx.2	hypothetical protein DKFZp434C1415.1 - human	pir|T42648|T42648	100%	9	95
HTAEC59	846728	2276	blastx.2	ubiquitin-conjugating enzyme E2.17kB - rat	pir|S53358|S53358	100% 100%	156 409	383 591

HTAED89	801931	2277	HMMER 2.1.1	PFAM: 7 transmembrane receptor (metabotropic glutamate family)	PF00003	78.6	1240	1578
			blastx.2	CALCIUM SENSING RECEPTOR, RELATED SEQUENCE 3 (CALCIUM-SENSING 1	sp|O35364|O35364	51% 50% 48% 42%	1216 899 1590 858	1611 1204 1706 920
HTAEO35	732379	2280	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	66% 84%	1503 1510	1195 1472
HTDAF68	637685	2281	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	70% 72% 50% 35%	711 892 2 154	890 1041 91 288
HTDAI38	878930	2282	blastx.2	CDNA FLJ20400 FIS, CLONE KAT00587 (FRAGMENT).	sp|Q9NX73|Q9NX73	89% 51% 41% 38% 37% 40% 32% 35% 38% 36% 33% 41% 36% 42% 30%	343 438 1248 930 954 1320 1146 1230 238 1041 675 361 352 941 1318	1050 1271 1898 1628 1826 1850 1904 1874 915 1904 1355 978 909 678 956
HTEAN76	830399	2284	blastx.2	FN5 PROTEIN.	sp|Q9NRQ5|Q9NRQ5	100%	224	400
HTECE87	702025	2286	blastx.2	CDNA FLJ10815 FIS, CLONE NT2RP4000989, WEAKLY SIMILAR TO 1	sp|Q9NVC3|Q9NVC3	94% 97%	121 8	279 133
HTEDF78	564215	2287	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	74%	1563	1423
HTEDX05	862064	2289	blastx.2	CDNA FLJ20574 FIS, CLONE REC01035.	sp|Q9NWV6|Q9NWV6	83% 74%	16 404	528 625
HTEEC19	862065	2290	blastx.2	TRANSLATION INITIATION	sp|O60841|IF2P_HUMA	100%	11	1321

				FACTOR IF-2.	N			
HTEGH03	815562	2291	blastx.2	(AL136911) hypothetical protein [Homo sapiens]	emb|CAB66845.1|	100%	32	949
HTEGH03	839477	2292	blastx.2	EPITHELIAL PROTEIN LOST IN NEOPLASM ALPHA.	sp|Q9UHB5|Q9UHB5	95% 84% 22%	1 678 103	732 866 687
HTEGY81	637689	2294	blastx.2	CG14939 PROTEIN.	sp|Q9VKF0|Q9VKF0	74%	11	478
HTEHB49	823145	2296	blastx.2	(AF222747) RanBP17 [Homo sapiens]	gb|AAG44255.1|AF222747_1	99% 65%	203 126	1537 254
HTEHV60	637690	2298	blastx.2	antifreeze glycopeptide AFGP polyprotein precursor [imported] - Boreogadus saida	pir|T44768|T44768	29% 29% 28% 27% 29% 29% 27% 29% 30% 28% 30% 29% 29% 30% 33%	70 58 58 67 58 67 70 67 55 67 58 418 418 505 58	1041 1038 1038 1041 1038 981 1041 1023 1041 1041 804 1041 1065 1041 645
HTEHW80	862068	2299	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp|BAB13911|BAB13911	69% 85% 77%	276 1076 1143	578 1014 1078
HTEID25	737852	2300	blastx.2	DJ1178H5.3 (NOVEL PROTEIN) (FRAGMENT).	sp|Q9Y4V7|Q9Y4V7	100%	259	384
HTEIJ23	784268	2301	blastx.2	CDNA FLJ20363 FIS, CLONE HEP17001.	sp|Q9NX98|Q9NX98	100%	107	1303
HTEIM62	806472	2302	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	67% 47%	120 617	10 561
HTEIV33	603393	2303	blastx.2	hypothetical protein DKFZp761L0812.1 - human (fragment)	pir|T47135|T47135	55%	259	11
HTEIV65	570826	2304	blastx.2	CDNA: FLJ22976 fis, clone	sp|BAB15513|BAB15513	100%	660	743

				KAT11222 (Fragment).		100% 100% 100% 96% 96%	660 659 659 660 659	743 742 742 743 742
HTEJD61	828178	2307	blastx.2	conserved hypothetical protein MTH83 - Methanobacterium thermoautotrophicum (strain Delta H)	pir|F69210|F69210	25% 24% 25% 25% 30% 29% 25% 26% 29%	27 33 21 12 404 401 401 401 401	389 386 383 389 682 679 679 679 583
HTEJL16	603409	2310	blastx.2	PF20 protein, microtubule-associated - Chlamydomonas reinhardtii	pir|T08180|T08180	48% 33% 34% 31% 45% 38%	1030 1090 1021 955 400 403	713 722 728 728 257 341
HTEKD35	604979	2313	blastx.2	carbonate dehydratase (EC 4.2.1.1) - zebra fish	pir|T08463|T08463	66%	40	591
HTEKV69	877673	2315	blastx.2	CG10806 PROTEIN.	sp|Q9VM74|Q9VM74	37%	217	1569
HTFOB75	900824	2318	blastx.2	(AF349951) HP95 [Homo sapiens]	gb|AAK20398.1|AF34995 1_1	96% 50%	162 2469	2366 2675
HTGAA35	737945	2319	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	78% 64%	1632 1474	1465 1349
HTGAD74	834464	2320	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	60%	889	587
HTGAP05	637715	2321	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	58% 65% 54%	1062 871 1064	868 749 993
HTGAR21	838159	2323	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	69% 67% 64%	1100 946 1104	936 800 1063
HTGAS70	827320	2324	blastx.2	DNA FRAGMENTATION FACTOR ALPHA SUBUNIT	sp|O00273|DFFA_HUMA N	97%	254	1216

				(DNA FRAGMENTATION 1				
HTGAT65	688864	2325	blastx.2	HSPC098 (FRAGMENT).	sp|Q9P0D8|Q9P0D8	60% 42%	1469 1074	1573 1130
HTGAU17	605125	2326	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	60% 60%	703 621	876 710
HTGBK95	834490	2328	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	61%	7	216
HTGCC01	598903	2329	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	74%	1125	832
HTGCK43	828867	2330	blastx.2	MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S15 (MRP-S15).	sp|P82914|P82914	100%	862	92
HTGDS43	605094	2331	blastx.2	HUS1+-LIKE PROTEIN.	sp|O60921|O60921	97%	706	831
HTGDS92	839478	2332	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	67% 87%	1324 1325	998 1302
HTGEX34	877490	2333	blastx.2	PRO2550.	sp|AAG35515|AAG35515	77%	2292	1966
HTGGM37	827310	2335	blastx.2	CDNA FLJ11267 FIS, CLONE PLACE1009174.	sp|Q9NUM6|Q9NUM6	77%	1781	1912
HTGGN22	782853	2336	blastx.2	CDNA: FLJ23147 fis, clone LNG09295.	sp|BAB15557|BAB15557	66% 55%	682 744	524 664
HTHBC58	839916	2338	blastx.2	PRO2550.	sp|AAG35515|AAG35515	81% 80%	1470 1300	1294 1208
HTHBQ29	561547	2340	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	60% 81% 72%	1081 848 915	893 783 850
HTHBZ91	637697	2342	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	66% 69% 65% 57% 52% 59% 55% 46% 30% 50% 46% 28% 27%	981 947 984 569 588 594 823 458 872 408 891 615 600	748 747 802 324 367 466 668 273 561 289 802 286 286

						30% 35% 50% 69% 26% 34% 50%	513 981 493 743 425 454 360	301 880 425 705 249 272 313
HTHCA30	637124	2343	blastx.2	CDNA: FLJ22294 fis, clone HRC04426.	sp|BAB15291|BAB15291	67%	603	466
HTHDB20	669032	2345	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	62% 79%	644 426	429 355
HTHDF45	621313	2346	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	63% 60%	849 1010	712 873
HTHDF86	815686	2347	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	83% 63% 57%	1029 1184 1534	1193 1249 1247
HTHDP65	637699	2349	blastx.2	PRO2550.	sp|AAG35515|AAG35515	66% 100%	205 42	35 16
HTHDV50	789402	2351	blastx.2	Hypothetical 9.0 kDa protein.	sp|BAB12374|BAB12374	47% 57% 77%	299 231 307	78 118 281
HTJMA64	775181	2352	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	64% 75% 75% 52% 44%	893 1065 1369 1209 1187	1087 1211 1500 1391 1267
HTJMJ72	840032	2353	blastx.2	B0205.10 PROTEIN.	sp|O61747|O61747	36% 43%	1 705	255 854
HTLAD74	638978	2354	blastx.2	MYB PROTO-ONCOGENE PROTEIN (C-MYB).	sp|P78525|P78525	61%	929	633
HTLAF81	855970	2355	WUblastx.64	(BC001978) Unknown (protein for IMAGE:3461487) [Homo sapiens]	gb|AAH01978.1|AAH01978	72%	306	1073
HTLBF46	839774	2356	HMMER 2.1.1	PFAM: Papain family cysteine protease	PF00112	255	176	751
			blastx.2	CATHEPSIN F PRECURSOR (EC 3.4.22.-) (CATSF).	sp|Q9UBX1|CATF_HUMAN	99%	56	757

HTLBF63	762847	2357	HMMER 2.1.1	PFAM: MYND finger	PF01753	53.8	652	762
			blastx.2	BLU PROTEIN.	sp|O75800|O75800	99%	10	792
HTLCX82	847091	2358	blastx.2	ES2 PROTEIN.	sp|O70279|O70279	93% 38%	237 127	629 630
HTLDN34	866199	2360	blastx.2	SOX30 PROTEIN.	sp|O94993|O94993	82% 64% 75%	242 9 726	751 233 872
HTLDP19	885353	2361	blastx.2	testis nuclear RNA binding protein - mouse	pir|I48840|I48840	33% 42% 40%	69 530 17	527 745 121
HTLDY30	901885	2362	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88% 88%	1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109 1109	1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240 1240

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						88%	1109	1240
						88%	1109	1240

						49% 60%	187 608	561 1168
HTLEV80	866200	2367	blastx.2	BETA-SPECTRIN III (FNTA III SPECTRIN).	sp|O15020|O15020	100%	9	500
HTLEZ57	634874	2368	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	53% 53% 50%	667 664 921	401 924 968
HTLFA90	740770	2369	blastx.2	IRT1 PROTEIN.	sp|Q9NY26|Q9NY26	35%	89	1069
HTLGL33	835020	2370	blastx.2	(AP001512) BH1501~unknown conserved protein in others [Bacillus halodurans]	dbj|BAB05220.1|	30%	382	1104
HTLGQ25	898114	2371	HMMER 2.1.1	PFAM: Immunoglobulin domain	PF00047	26.6	153	377
			WUblastx.6 4	(AL049634) dJ576H24.4 (novel member of the PTPNS (protein 1 sapiens]	emb|CAC19495.1|	100%	114	443
HTLGS72	897278	2372	blastx.2	BRAIN CDNA, CLONE MNCB-2717.	sp|Q9JJC0|Q9JJC0	40%	6	596
HTLGY50	839479	2373	WUblastx.6 4	(AJ006529) putative phosphatase [Gallus gallus]	emb|CAA07090.1|	39% 65%	987 589	1100 1002
HTLHN86	896930	2374	blastx.2	ZINC FINGER PROTEIN 289.	sp|Q9JIH1|Q9JIH1	94%	318	938
HTLHN86	838287	2375	blastx.2	ZINC FINGER PROTEIN 289.	sp|Q9JIH1|Q9JIH1	94%	318	938
HTLHN86	843766	2376	blastx.2	ZINC FINGER PROTEIN 289.	sp|Q9JIH1|Q9JIH1	94%	318	938
HTLHN86	883351	2377	blastx.2	ZINC FINGER PROTEIN 289.	sp|Q9JIH1|Q9JIH1	94%	318	938
HTLIW29	899417	2378	HMMER 2.1.1	PFAM: Trypsin	PF00089	226.4	133	852
			blastx.2	TESTISIN.	sp|Q9Y6M0|Q9Y6M0	100%	10	951
HTNAL14	886203	2380	blastx.2	CDNA FLJ20054 FIS, CLONE COL00849.	sp|Q9NXU2|Q9NXU2	100%	580	687
HTNBJ15	834872	2382	blastx.2	(AL512684) hypothetical protein [Homo sapiens]	emb|CAC21643.1|	99%	1536	1889
HTNBJ15	845783	2383	blastx.2	(AL512684) hypothetical protein [Homo sapiens]	emb|CAC21643.1|	99%	1536	1889
HTNBJ15	853916	2384	blastx.2	(AL512684) hypothetical protein [Homo sapiens]	emb|CAC21643.1|	99%	1536	1889
HTNBJ15	884024	2385	blastx.2	(AL512684) hypothetical	emb|CAC21643.1|	99%	1536	1889

				protein [Homo sapiens]				
HTOAK03	581103	2388	blastx.2	HYPOTHETICAL 158.2 KDA PROTEIN.	sp|Q9Z0W3|Q9Z0W3	91% 48% 68%	781 363 440	954 470 496
HTOAO58	855972	2389	blastx.2	SCAND2.	sp|AAG33966|AAG33966	49%	974	1321
HTOAT56	702026	2390	blastx.2	SYNAPTOGYRIN 2 (CELLUGYRIN).	sp|O43760|SNG2_HUMAN	89% 82%	10 425	495 673
HTOBG07	566862	2391	blastx.2	(AF308285) serologically defined breast cancer antigen NY-BR-16 [Homo sapiens]	gb|AAG48253.1|AF308285_1	99% 41% 38% 37% 33% 34% 30% 50% 44% 25% 39% 66% 57%	9 498 438 276 183 462 462 798 1182 261 1098 941 43	1343 1343 1343 1187 1319 1304 1286 953 1343 839 1247 967 84
HTOBG62	566830	2392	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	77%	1390	1112
HTODA92	849216	2393	blastx.2	(AL096828) dJ963E22.1 (Novel protein similar to NY-REN-2 Antigen) [Homo sapiens]	emb|CAC09391.3|	80%	2	136
HTODO45	823125	2395	blastx.2	HYPOTHETICAL 15.4 KDA PROTEIN.	sp|Q99770|Q99770	57% 66%	1449 1201	1183 1166
HTOET03	845230	2399	blastx.2	DIPHTHAMIDE BIOSYNTHESIS PROTEIN-2.	sp|O60623|O60623	97%	34	1041
HTOET03	837213	2400	blastx.2	DIPHTHAMIDE BIOSYNTHESIS PROTEIN-2.	sp|O60623|O60623	97%	34	1041
HTOFA11	637719	2402	blastx.2	MHC CLASS II HLA-DQ-ALPHA (DR2-DQW1/DR4 DQW3) (FRAGMENT).	sp|Q30086|Q30086	96% 97% 80% 68%	1348 694 1962 1882	1635 942 2069 1968
HTOFC33	824604	2403	blastx.2	PRO2550.	sp|AAG35515|AAG35515	73%	1069	878

						65%	900	754
HTOGB79	762835	2404	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	52%	1639	1917
						60%	1642	1806
						50%	1661	1825
						60%	1854	1928
						43%	1797	1865
						32%	1420	1542
						42%	118	201
						60%	1444	1488
						31%	1465	1530
						27%	69	227
						63%	2756	2478
						77%	2727	2551
						60%	1339	1157
						75%	2727	2596
						51%	2661	2500
						46%	2715	2596
						68%	1284	1219
						53%	2606	2472
						42%	2663	2553
						55%	1333	1274
						42%	1214	1137
						55%	1208	1155
						42%	1302	1141
						55%	1332	1273
						48%	1332	1264
						66%	2777	2733
						52%	2730	2674
						56%	1213	1166
HTOHE22	821698	2405	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	75%	1008	1217
HTOHG63	834832	2406	blastx.2	CDNA FLJ13465 fis, clone PLACE1003493, weakly similar to 1	sp|BAB14599|BAB14599	98%	2	670
HTOHJ93	762836	2407	blastx.2	UBIQUITOUS TPR-MOTIF PROTEIN Y ISOFORM (FRAGMENT).	sp|Q9NR08|Q9NR08	78%	1309	1172
						77%	1185	1054

HTOHN40	843372	2410	blastx.2	PRO2550.	sp|AAG35515|AAG35515	46% 45%	1845 1958	1648 1848
HTOHR59	762850	2411	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	66%	1294	1061
HTOHS29	722256	2412	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	66%	177	7
HTOID65	636069	2413	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	50% 73% 72%	423 1464 1471	761 1153 1439
HTOIE17	688061	2414	blastx.2	PRO0657 (FRAGMENT).	sp|Q9UI50|Q9UI50	46% 60%	930 866	1103 940
HTOIG16	845999	2415	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	72% 93%	1793 1558	1563 1511
HTOIH39	839245	2416	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	64% 73%	874 14	1182 127
HTOJB02	600376	2418	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	61% 62% 60% 74% 53% 66% 45% 50% 57% 37% 30% 43% 41% 34% 70% 44% 48% 52% 62% 47% 38%	918 1445 949 1411 1442 919 966 787 1274 784 1275 840 889 1322 1324 1439 1218 1235 708 682 1436	616 1098 713 1265 1251 770 727 632 1134 614 1093 727 770 1143 1265 1338 1144 1161 661 626 1383
HTOJJ26	821702	2419	blastx.2	(AB055293) hypothetical	dbj|BAB21918.1|	66%	2993	2832

				protein [Macaca fascicularis]				
HTOJP25	853623	2420	blastx.2	hypothetical L1 protein (third intron of gene TS) - human	pir|JU0033|JU0033	60%	1388	1519
HTOJS23	737735	2421	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	59% 46% 57%	1833 1670 1564	1657 1575 1523
HTOJY56	664504	2422	blastx.2	PRO2032.	sp|Q9P1F2|Q9P1F2	100%	88	240
HTOJZ18	844388	2423	blastx.2	CDNA FLJ12155 fis, clone MAMMA1000472.	sp|BAB13989|BAB13989	45%	1016	708
HTPCO75	853645	2425	blastx.2	ORF2-LIKE PROTEIN (FRAGMENT).	sp|O00549|O00549	43% 36%	325 1318	26 1253
HTPDD68	590530	2427	blastx.2	(AL136810) hypothetical protein [Homo sapiens]	emb|CAB66744.1|	96% 66%	10 131	2004 202
HTSET62	833692	2430	blastx.2	HMG-box transcription factor TCF-3.	sp|BAB18185|BAB18185	97%	124	327
HTSFV18	609939	2431	HMMER 2.1.1	PFAM: Low-density lipoprotein receptor domain class A	PF00057	49.4	170	280
			blastx.2	(AB009462) LDL receptor related protein 105 [Homo sapiens]	dbj|BAA32330.1|	82%	10	984
HTSGO13	789723	2432	blastx.2	CDNA FLJ20807 FIS, CLONE ADSE01784.	sp|Q9NWJ5|Q9NWJ5	99% 97%	195 489	548 845
HTSGO88	634834	2433	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	76% 69% 64% 46% 49% 52% 36% 68% 57% 41% 45% 50% 55% 52%	797 791 149 772 164 640 746 639 568 797 560 712 59 697	612 627 15 521 15 521 522 574 512 705 492 638 6 632

						52% 54% 72% 38%	638 135 52 251	576 103 20 159
HTTAH05	772560	2434	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	52% 57%	475 666	693 797
HTTBJ38	863131	2436	blastx.2	CG4911 PROTEIN.	sp|Q9VST7|Q9VST7	26%	497	1177
HTTDG27	608318	2438	blastx.2	LINE-1 ELEMENT ORF2.	sp|O62658|O62658	38%	392	3
HTTDN24	766485	2439	blastx.2	CDNA FLJ20510 FIS, CLONE KAT09662.	sp|Q9NX02|Q9NX02	98% 95% 32%	628 3 1114	1725 629 1596
HTTDO33	899418	2440	blastx.2	HYPOTHETICAL 28.3 KDA PROTEIN.	sp|O95476|O95476	99%	22	753
HTTEP11	562023	2443	blastx.2	hypothetical protein DKFZp434C0927.1 - human	pir|T46441|T46441	81% 84% 51% 70%	607 1006 812 753	813 1179 928 830
HTTES77	844417	2444	blastx.2	immunoglobulin-like protein IGSF1 - human	pir|T09402|T09402	98% 97% 37% 40% 35% 38% 32% 36% 37% 32% 37% 37% 31% 31% 33% 34% 42% 32%	697 3 697 697 697 3 595 982 6 982 45 9 6 6 6 129 1558 659	2085 719 1992 1818 1815 734 1761 1818 725 1776 719 680 716 716 680 704 1821 733
HTTFG15	600377	2446	blastx.2	Hypothetical 10.0 kDa protein.	sp|BAB12359|BAB12359	66%	327	482
HTWAM19	618318	2447	blastx.2	CDNA: FLJ21463 fis, clone	sp|BAB15071|BAB15071	64%	1764	1525

				COL04765.		77%	1867	1763
HTWBF58	747706	2448	blastx.2	FLJ00047 protein (Fragment).	sp|BAB15745|BAB15745	81%	1022	924
HTWBO30	655371	2449	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N083|Q9N083	52% 55%	760 560	578 453
HTWBZ57	828030	2450	blastx.2	HHM PROTEIN.	sp|Q9NS19|Q9NS19	99% 97%	314 198	1276 320
HTWCC10	747687	2451	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	51%	1240	947
HTWCT76	767758	2453	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj|BAB21918.1|	68% 58%	1550 1361	1368 1311
HTWDJ17	784037	2454	WUblastx.64	(AK013267) putative [Mus musculus]	dbj|BAB28758.1|	93%	17	1255
HTWDM89	569787	2455	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	67%	1442	1146
HTWEQ36	823369	2458	blastx.2	CDNA FLJ20187 FIS, CLONE COLF0433.	sp|Q9NXK9|Q9NXK9	100%	724	891
HTWFA88	596942	2460	blastx.2	probable transposase - human transposon MER37	pir|S72481|S72481	57% 70% 62% 58%	709 1350 800 1286	1272 1559 952 1357
HTWFO43	858741	2462	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	64% 60% 63% 42% 55% 40% 61% 40% 84% 36% 36% 53% 59% 58% 36% 30% 41%	926 1275 1241 1106 1290 1108 907 1215 1034 922 841 684 753 675 863 863 1272	627 1039 1047 744 1102 689 743 1087 996 743 596 601 688 625 744 633 1183

						29% 52% 64% 45% 30%	920 1033 657 1063 1272	777 977 607 992 1054
HTXAD75	745410	2465	blastx.2	Calpain 2.	sp|AAG22771|AAG22771	98%	345	917
HTXAR92	656935	2466	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	78%	1599	1297
HTXBU88	604985	2468	blastx.2	PRO2550.	sp|AAG35515|AAG35515	80% 60%	698 775	459 701
HTXCP27	892364	2469	blastx.2	PROTEIN PHOSPHATASE 2C GAMMA ISOFORM (EC 3.1.3.16) 1 1	sp|O15355|P2CG_HUMAN	98% 100% 97%	285 946 521	524 1149 628
HTXCU30	839846	2470	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	59% 80% 81%	875 639 706	684 577 641
HTXCV44	740773	2471	blastx.2	CDNA FLJ12155 fis, clone MAMMA1000472.	sp|BAB13989|BAB13989	63% 62% 52% 72% 68%	630 794 883 1527 1370	803 898 945 1366 1323
HTXDJ75	562780	2473	blastx.2	PVA1 GENE.	sp|Q26195|Q26195	55%	1619	1335
HTXDT72	778083	2477	blastx.2	CDNA FLJ12238 fis, clone MAMMA1001260, weakly similar to 1	sp|BAB14005|BAB14005	70%	8	397
HTXDZ68	824545	2479	blastx.2	HSPC106 (FRAGMENT).	sp|Q9P0D0|Q9P0D0	71% 90%	136 80	498 277
HTXEN33	589556	2480	blastx.2	ICSAT TRANSCRIPTION FACTOR (FRAGMENT).	sp|Q99419|Q99419	78%	843	968
HTXJD08	566885	2485	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14288|Q14288	59% 57% 47%	743 395 604	1111 583 756
HTXJD85	840391	2486	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp|BAB13911|BAB13911	51%	1114	818
HTXJI59	869905	2488	blastx.2	SHC TRANSFORMING PROTEIN.	sp|P29353|SHC_HUMAN	93%	1708	1571

HTXJJ92	688062	2489	blastx.2	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)	pir|A46010|A46010	48%	537	782
HTXJM94	853413	2490	blastx.2	(AF077205) HSPC019 [Homo sapiens]	gb|AAD27000.1|	83%	44	262
HTXJW06	789201	2492	blastx.2	ADRENAL GLAND PROTEIN AD-003.	sp|Q9UI28|Q9UI28	100%	868	614
HTXKB57	844329	2493	blastx.2	HSPC309 (FRAGMENT).	sp|Q9P073|Q9P073	79% 60% 94% 44% 58%	1125 1334 1072 927 427	1526 1501 1128 1007 462
HTXKH40	600378	2495	blastx.2	CGI-71 PROTEIN.	sp|Q9Y380|Q9Y380	94%	9	290
HTXKK76	858755	2496	blastx.2	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	pir|T29097|T29097	44%	475	2
HTXKL53	783141	2497	blastx.2	CGI-05 PROTEIN.	sp|Q9Y3F0|Q9Y3F0	90% 100%	3 1315	89 1359
HTXLC05	843523	2500	blastx.2	Sphingosine-1-phosphatase.	sp|CAC17772|CAC17772	28%	4	531
HTXLY94	844165	2503	blastx.2	hypothetical protein DKFZp586F0424.1 - human (fragment)	pir|T14744|T14744	67%	44	643
HTXNV66	840597	2504	blastx.2	ADP-RIBOSYLATION FACTOR BINDING PROTEIN GGA2.	sp|Q9UJY4|Q9UJY4	99%	18	431
HTXOL30	838462	2505	blastx.2	Hypothetical 8.0 kDa protein.	sp|BAB12345|BAB12345	68%	840	718
HTXOW27	839280	2506	blastx.2	(AL136862) hypothetical protein [Homo sapiens]	emb|CAB66796.1|	98% 100%	229 1649	1656 2086
HTXPD86	834772	2507	blastx.2	WD-REPEAT PROTEIN 5 (FRAGMENT).	sp|Q9UGP9|WDR5_HUMAN	99%	74	1132
HTXPT57	897834	2508	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp|O60448|O60448	62% 61% 52% 48% 52% 61% 42%	717 723 689 1121 1084 939 725	526 544 408 834 926 838 474

						55% 38% 53% 45% 41% 64% 55% 66% 53% 42% 50% 57%	564 722 551 974 1054 891 480 1113 911 1034 633 425	451 543 432 849 911 841 427 1069 834 921 580 384
HTYSJ88	598718	2509	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	75%	768	457
HUFAB57	587275	2512	blastx.2	CYCLOPHILIN-33B (EC 5.2.1.8).	sp|O43635|O43635	55% 94%	826 1266	1035 1316
HUFAO92	608175	2514	blastx.2	CALCIUM-TRANSPORTING ATPASE TYPE 2C, MEMBER 1 (EC 1	sp|P98194|ATC4_HUMAN	64%	175	510
HUFAO94	668267	2515	blastx.2	PRENYLATED RAB ACCEPTOR 1.	sp|Q9UI14|Q9UI14	100%	3	551
HUFAP33	600379	2516	HMMER 2.1.1	PFAM: Zona pellucida-like domain	PF00100	223.2	282	1016
			blastx.2	DMBT1 PROTEIN.	sp|Q9Y211|Q9Y211	100% 100% 100% 43% 41% 38% 38%	228 26 1013 29 445 445 445	1016 226 1144 217 546 546 522
HUKAD46	604986	2524	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	63% 46% 43%	377 589 591	598 747 656
HUKAO50	805975	2526	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	78% 83% 83% 83%	1888 1898 1898 1898	2058 2056 2056 2056

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						95%	1927	2058
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						95%	1927	2058

HUKCS86	826468	2527	blastx.2	CDNA FLJ20500 FIS, CLONE KAT09159.	sp|Q9NX09|Q9NX09	100%	201	896
HUKCS86	844245	2528	blastx.2	CDNA FLJ20500 FIS, CLONE KAT09159.	sp|Q9NX09|Q9NX09	100%	201	896
HUKEA22	702029	2529	blastx.2	CINGULIN.	sp|Q9PTD7|Q9PTD7	75% 23% 22%	575 569 569	12 51 18
HUKFC71	845161	2607	blastx.2	MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S15 (MRP-S15).	sp|P82914|P82914	100%	293	931
HUKFV37	844644	2533	blastx.2	SYNAPTOGYRIN 2 (CELLUGYRIN).	sp|O43760|SNG2_HUMAN	99%	49	720
HUNAL39	559448	2535	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp|Q14288|Q14288	81%	1009	629
HUSAO04	877889	2536	HMMER 2.1.1	PFAM: tRNA synthetases class I (W and Y)	PF00579	260.4	255	965
			blastx.2	CDNA FLJ13995 fis, clone Y79AA1002209, weakly similar to 1	sp|BAB14806|BAB14806	99%	30	1460
HUSAO04	870791	2537	HMMER 2.1.1	PFAM: tRNA synthetases class I (W and Y)	PF00579	212.2	297	965
			blastx.2	CDNA FLJ13995 fis, clone Y79AA1002209, weakly similar to 1	sp|BAB14806|BAB14806	99%	30	1460
HUSCA09	853417	2538	HMMER 2.1.1	PFAM: Leucine Rich Repeat	PF00560	69.9	1259	1327
			WUblastx.64	similar to yeast adenylate cyclase (S56776) [Homo sapiens]	dbj|BAA13220.1|	97%	203	1630
HUSGB23	704094	2540	blastx.2	(AL136817) hypothetical protein [Homo sapiens]	emb|CAB66751.1|	74% 97%	12 143	212 247
HUSGY15	759888	2543	blastx.2	ZINC TRANSPORTER LIKE 2.	sp|Q9JKN1|Q9JKN1	94%	162	1289
HUSHD41	866498	2544	blastx.2	UNNAMED PORTEIN PRODUCT.	sp|Q9N092|Q9N092	96% 56%	2575 2569	1541 2501
HUSHK65	847188	2545	HMMER	PFAM: CUB domain	PF00431	292.1	887	1222

			2.1.1					
			blastx.2	Neuropilin-2a(17).	sp|AAG41897|AAG41897	97%	806	2122
						100%	2089	2721
						100%	3046	3579
						95%	2727	3023
						33%	2086	2619
						33%	1547	2086
						50%	3008	3091
						36%	1128	1250
						42%	3425	3487
HUSIK45	853932	2546	blastx.2	HYPOTHETICAL 57.9 KDA PROTEIN GS099H08.1.	sp|O43354|O43354	100%	23	454
HUSIO57	886206	2547	blastx.2	HYPOTHETICAL PROTEIN CGI-143.	sp|Q9Y3E2|YCE3_HUMAN	100%	170	580
HUSIR70	838163	2549	blastx.2	BSCv protein (Fragment).	sp|BAB11885|BAB11885	97%	1	345
HUSXP50	561962	2550	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	96%	313	411
						96%	318	413
						96%	318	413
						96%	318	413
						96%	318	413
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						96%	318	413
						96%	318	413
						96%	318	413
						93%	315	413
						90%	318	413
HUSXY93	658733	2551	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]	dbj|BAA97098.1|	86%	479	637
						100%	504	638
						93%	494	637
						93%	494	637
						93%	494	637

T02T60"E8005660

						93%	494	637
						93%	494	637
						93%	494	637

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						91%	495	638
						91%	495	638
						91%	495	638

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						100%	511	639
						100%	511	639
						100%	511	639

						41% 37%	2159 1843	2022 1676
HWAAH11	815548	2556	blastx.2	CDNA FLJ11856 fis, clone HEMBA1006789.	sp|BAB13936|BAB13936	100%	362	754
HWAAQ28	806588	2557	blastx.2	HSPC169.	sp|Q9NZZ8|Q9NZZ8	96% 100% 23%	62 651 649	676 980 801
HWABR43	823367	2559	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp|BAB15056|BAB15056	70% 78%	2305 2073	2075 2032
HWACZ33	827311	2561	blastx.2	collagen-related protein 1 precursor - Hydra magnipapillata	pir|A41132|A41132	51% 45% 66%	133 133 1129	270 291 1164
HWADV90	897732	2562	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp|Q9NX17|Q9NX17	79%	2393	2163
HWAEB52	873207	2563	blastx.2	CDNA FLJ13219 fis, clone NT2RP4001849, weakly similar to 1	sp|BAB14506|BAB14506	90% 27%	389 356	1426 1168
HWBAK71	853581	2564	blastx.2	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 3 - human mitochondrion	pir|A00422|DNHUN3	91%	23	340
HWBBU75	780360	2565	blastx.2	MUNC13-4 PROTEIN.	sp|Q9R189|Q9R189	82% 88% 78% 70% 34% 31%	1454 194 913 2229 401 1586	2362 952 1434 2729 532 1711
HWBCN81	853580	2566	blastx.2	(AL109658) dJ776F14.2 (a novel protein member of the PTPNS 1 [Homo sapiens]	emb|CAB96828.1|	94% 29% 100%	195 222 150	560 662 221
HWBCX93	853418	2568	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp|Q9NX85|Q9NX85	82% 80%	829 642	641 553
HWHGV77	788555	2572	blastx.2	SKIN-SPECIFIC PROTEIN (FRAGMENT).	sp|O14634|O14634	98%	427	756
HWHGW09	702032	2573	HMMER 2.1.1	PFAM: Uncharacterized protein family	PF01027	68.3	271	444
			blastx.2	CGI-119 PROTEIN.	sp|Q9Y3C2|Q9Y3C2	92%	223	450

HWHHA21	638966	2574	blastx.2	SKIN-SPECIFIC PROTEIN.	sp|O14633|O14633	93%	121	450
HWHPU44	778090	2575	blastx.2	(AJ245876) putative cytoplasmatic protein [Homo sapiens]	emb|CAC21571.1|	97%	311	547
HWLGP26	834770	2579	blastx.2	DNA POLYMERASE MU.	sp|Q9NP87|Q9NP87	100% 94% 87% 93% 76% 24%	3 295 432 674 248 128	260 465 623 760 298 397
HWLHO31	837480	2580	blastx.2	KINESIN-LIKE PROTEIN GAKIN.	sp|Q9NQT8|Q9NQT8	96% 100%	190 41	1689 205
HWLJN08	800626	2582	blastx.2	PROTEIN KINASE C INHIBITOR.	sp|Q9I839|Q9I839	60%	467	844
HWLRE03	831198	2583	blastx.2	HYPOTHETICAL 53.8 KDA PROTEIN (FRAGMENT).	sp|O60646|O60646	99% 92%	1238 1008	2431 1265
HWTBL86	791720	2589	blastx.2	hypothetical protein DKFZp434N0535.1 - human (fragment)	pir|T17285|T17285	99%	1	1107
HWTBX66	732187	2590	blastx.2	(AJ276505) tumor suppressing subtransferable candidate 5 [Mus 1	emb|CAC16401.2|	35% 28%	30 513	317 989
HYAAD61	897736	2592	blastx.2	ATPASE SUBUNIT 6.	sp|Q9T9W0|Q9T9W0	94% 47%	2006 1036	2179 1101
HYBAP75	853561	2594	blastx.2	UNNAMED PROTEIN PRODUCT.	sp|Q9N032|Q9N032	64%	909	1025
HYBBD81	533784	2597	blastx.2	(AC011708) putative RING zinc finger protein [Arabidopsis thaliana]	gb|AAF19568.1|AC011708_11	38% 75% 35% 34%	444 183 604 604	112 100 515 509

[117] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A and/or Table 1B. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1B. The third column provides the sequence identifier, "SEQ ID NO:", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the Table was determined. The fifth column provides a description of the PFAM/NR hit identified by each analysis. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, score/percent identity, provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM"), as described below.

[118] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1B, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish and States, Nat. Genet. 3:266-272 (1993). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID

NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[119] The PFAM database, PFAM version 2.1, (Sonnhammer, Nucl. Acids Res., 26:320-322, 1998))consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., Durbin, et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1B) to each of the HMMs derived from PFAM version 2.1. A HMM derived from PFAM version 2.1 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFAM family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFAM hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which show a significant match to a PFAM protein family.

[120] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[121] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby

enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A and/or 1B.

[122] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[123] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (e.g., as set forth in columns 2 and 3 of Table 1A and/or as set forth, for example, in Table 1B, 6, and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[124] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[125] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop

codon, respectively. In some cases, cDNAs are missing the start codon of translation, therefor. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[126] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[127] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[128] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript and a primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the gene of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant gene.

[129] The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (e.g., as described in columns 2 and 3 of Table 1A, and/or as set forth in Table 1B,

Table 6, or Table 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as described, for example, in Table 1A and Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A and/or 1B (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A and/or 1B or 2, by procedures hereinafter further described, and others apparent to those skilled in the art.

[130] Also provided in Table 1A and 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[131] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res. 16:*7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res. 17:*9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies 5:*58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[132] Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus 15:*59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli*

strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res. 16:*9677-9686 (1988) and Mead, D. *et al., Bio/Technology 9:* (1991).

[133] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[134] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by genes corresponding to SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[135] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[136] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[137] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using

techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the polypeptides of the present invention in methods which are well known in the art.

[138] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1C. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1C are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[139] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1C column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1C column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1C, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1C, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1C, column 6, and have a nucleic

acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1C, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1C, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1C, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[140] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1C which correspond to the same Clone ID NO:Z (see Table 1C, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1C which correspond to the same Clone ID NO:Z (see Table 1C, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1C which correspond to the same Clone ID NO:Z (see Table 1C, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1C, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1C which correspond to the same Clone ID NO:Z (see Table 1C, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1C, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1C which correspond to the same Clone ID NO:Z (see Table 1C, column 1) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1C, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

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[141] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1C which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1C, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1C which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1C, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1C which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1C, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1C, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1C which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1C, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1C, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1C which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1C, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1C, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[142] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1C column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1C column 6, or any combination thereof. In preferred embodiments, the polynucleotides of

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the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1C column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1C, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1C, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1C, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1C, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1C, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1C, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[143] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1C, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1C, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[144] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1C which correspond to the same Clone ID NO:Z (see Table 1C, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A, 1B, or 1C) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[145] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1C, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A, 1B, or 1C) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1C. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[146] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1C and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[147] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1C and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[148] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the

sequences delineated in column 6 of Table 1C are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[149] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1C are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[150] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1C and the 5' 10 polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[151] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1C and the 5' 10 polynucleotides of

another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1C, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[152] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifer SEQ ID NO:X (see Table 1C, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[153] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1C and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1C is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1C, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

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[154] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the fifth column of Table 1A and/or the fourth column of Table 1B, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

PCT/US2003/041345 WO 2004/065540

TABLE 3

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer Range of a	Range of b	Accession #'s
H2CBD20	11	570796	1 - 1242	15 - 1256	AA307235, AI002535, and AL110292.
H2CBH91	12	826669	1 - 1746	15 - 1760	AW513036, AA987293, AA514234, AA527326, AI042506, AA307523, BF434189, AW027392, AI830125, AI082564, BE465081, BE930938, AW137220, BE207383, AA595583, AW592017, AW149821, AI080114, AW407521, AA515071, AW954673, BF978370, AW972013, AI702884, AA699914, BF308679, AA664812,

					AA057192, H30341, AA810167, BE298153, H19982, BE934692, AA010016, H30276, Z28643, W96528, BF746707, AA916894, AI565193, BE694224, BF025844, BE409534, BE091031, W96424, AA057126, AA629693, BE302462, AK000364, AF260012, AF260012, and AF260012.
H2LBA54	13	684290	1 - 1515	15 - 1529	AL533221, AU118215, AW967448, BE858694, W05793, BE881068, BE785689, AV722687, AW511394, AW854145, AU127733, BF679080, AI831755, AW162644, AW854285, AW299694, BG259735, AU136457, AI929569, AA316000, AI815769, BG024726, BE091033, BG027272, AI990740, AW854276, BF765904, BE379291, AI908478, C18225, AW161087, AA773846, AI653140, AU126756, BE090921, AI814482, AI654046, AW466987, AU144842, BF939610, BF060669, AI582346, AI434826, AI924047, AW295587, AW439794, AU156733, BF001735, AI804186, AW673465, AW006893, R75961, AI420472, AA251276, AI561045, AA804539, BF003083, AU150205, AW675786, AI017430, AI278043, BE087891, AI815392, AW362310, AI275554, AA237041, AW139772, AW006914, AW194004, AI248944, AI921939, AI160403, AW519320, AI246300, AI802110, AI954701, R39810, AW971515, N95381, AI695795, AI016984, AA629602, BF037404, R14042, R24731, R24431, AA808210, AW516604, AW177131, AW362546, T98372, AI203144, AI420225, AI242952, BE778569, AA321616, AA441948, AA247315, BF807374, R45462, BE931172, AW768315, T63304, BE547877, AW993858, T63056, AW134916, R24432, T98373, AA329617, N75057, AA886625, Y11588, AK001899, AL022067, AL138917, AL133509, and AX008043.
H2LBB09	14	658667	1 - 2100	15 - 2114	AW967455, BF792989, BE897386, BE897270, BE896034, BG110036, BE644929, BE892971, BF216672, BE537789, BF967796, AI524819, BF967358, AW392948, BE614067, AW025437, BE889901, BF213522, AI147405, W56394, AI471511, AI628532, AI701894, BF240675, BF102752, AI554184, AI680087, BE614548, BF215162, AI093424, BF029938, AI393786, AW028721, AA583021, AI830475, AA768782, BE466503, AW957941, AA631201, AI768164, AW380434, AI800211, BF102559, AA582924, AW338354, AA233633, AI174427, AA251178, BE540900, AI224000, AI127578, W37364, AW474864, AI569643, BF031354, AA587688, W37343, AI936371, AW769226, H79089, BF681005, AI867157, R20279, AA167027, AW183118, AA307144, AI682744, AW391600, BE568318, AA316064, W04717, AA885916, AA308645, AA594136, H72619, BE242068, AI633349, T15899, AI908564, AW275540,

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H2LBB09	15	830636	1 - 2144	15 - 2158	AW967455, BF792989, BE897386, BE897270, BE896034, BF967358, BG110036, BE889901, BE644929, BE892971, BF216672, BE537789, BF967796, AW392948, AI524819, BE614067, AW025437, BF213522, BF029938, AI147405, W56394, AI471511, AI628532, AI701894, BF102752, BF240675, AI554184, AI680087, BE614548, AI093424, BF215162, AA251178, AI393786, AW028721, AA583021, BE540900, AI830475, AA768782, BE466503, AW957941, AA631201, AI768164, BF031354, AW380434, BE568318, AI800211, BF102559, AA582924, AA233633, AW338354, AI174427, AA307144, AI224000, AI127578, W37364, AW474864, AI569643, H72619, AA587688, W37343, AI936371, AW769226, H79089, BF681005, R20279, AI867157, AA167027, AW183118, AI682744, AW391600, W04717, AA316064, AA885916, AA308645, AA594136, AV736699, BE242068, AI633349, T15899, AI908564, AW275540, AA813805, AW957390, AI394083, AA233790, AA167078, W31819, T10866, H72620, AI282782, R41820, AW338355, H79090, BF592065, BE965919, AA371318, AA764944, AA577124, T03642, R43618, AA593183, D59359, AA643994, BF879233, BE932872, BE042421, BF797086, AA251076, BE122895, AK000796, AX048110, AF151044, and AC015863.
H2MAC63	16	610045	1 - 429	15 - 443	AW954697, BF510229, AI608952, AI963459, AW182396, AI223046, AA627631, AA308164, AA121095, W67308, W67212, AA535549, AI916825, AL040648, AW196453, BE908394, AI807794, AA122350, AW517665, AA150593, AA992215, AI598010, AA316458, BF507914, BE140848, BE140845, BF915208, BE885353, BE963838, BE613727, BG109270, BE393551, BE965432, BF753053, AW983824, AW023590, BE875407, BF814409, AI251830, AW083804, AA641818, AI538885, BF909758, BE964497, AW059828, BG035988, AW263569, BE966011, AI340603, AW194014, AI345253, BG111535, AI310575, AI340627, BF337590, BF035653, AA420722, BE965067, AI564716, AW082040, AA888196, AI310606, BE964767, AI340533, AI370392, AI348854, AI491904, AI340511, BE011885, AI289791, AW022682, AW022102, AW950220, AW167397,

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H2MBA76	17	826161	1 - 1301	15 - 1315	BE274365, BE675910, AW973401, AA523268, AA857324, AA599254, AA948681, AU150254, AI362652, AA314840, AI309067, AA622903, AI560750, AI184674, AA552940, AA857000, AW073749, AA828342, R06650, D61287, AI695465, AI655714, AI149910, AA398691, AA856657,

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H2MBF60	18	695714	1 - 1160	15 - 1174	BG023808, AI609002, AI765146, AI934506, BG117624, BE780571, BG164482, BG164276, BE882192, AI609267, AI872127, BG028131, AI498150, BF965743, BE538269, AW954707, BF980450, BE890012, BE870774, AA721085, BE904299, BF576903, AW168215, AA308443, BF105118, BE855700, AI831702, BF686036, BF791326, BE888487, AV717548, AV695133, AV691835, AV684243, AW079359, AW474204, BE885497, BE909376, AW138745, AA420537, AA421698, BF308327, BF239451, BG027210, AA743523,

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H6BSM88	19	609832	1 - 902	15 - 916	AW978875, AW003297, AL041243, AI073978, AA834995, AW977360, AW139781, AI126591, AA768506, N35124, AI082037, AW058163, AW073260, AW590380, BF445405, AW196376, AI970380, AW512288, AI359480, AA970987, AI264055, AA635579, BE567336, AI567903, AA416740, AA736698, AI889005, AI625277,

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H6EEA48	20	847111	1 - 1214	15 - 1228	BE729574, AL525054, BE734296, BE549234, BE612600, BE903604, BE745405, BE311981, BE613340, BE899322, BE877226, BE742508, BE379419, BF033662, AI079540, BF339777, BG164618, AW301090, BE788807, BE909447, BF792659, BE747302, BE782991, BE746235, BF686415, BE259564, BG116654, AW245743, AL110467, BE265746, BE382926, BG167167, AI870747, BF316896, AI435074, AI810818, BG249818, AA426021, AI675429, AA443445, AI380916, AW016054, BE254649, BE266690, BF939243, AW197499, AI968701, AI917395, AI085552, AW015418, AI803701, AI627419, AI609029, AA054185, AI243526, BF448768, H68793, AI813835, BE780379, AW271667, BF350582, AA418059, AA838309, N36450, AI184105, H06674, AW245387, N51652, W00635, AA852859, AA428116, AA505926, AI350611, T71376, AI074877, AI813850, H82530, H86659, AI609552, AA993193, H68794, BE829913, AA836943, AA852860, AA557951, BF928087, BF130572, AI499309, BE840422, BE890771, AI623897, R96119, AI867284, AW630507, AW002546, H96259, AA814467, AA443541, AA417955, T71246, F37450, C02248, AA983883, AA746607, AI922550, BF904189, AL119791, BE895765, AW020397, AW089233, AI802654, AW084447, BF342070, BG151388, AW087199, AC011479, AF061943, AX015425, M27260, AF141289, AF067790, AF119857, AL049464, AL442082, AF104032, AF151076, AF225424, AF111851, AR059958, AF116602, I66342, I89947, I48978, AF022813, A08913, AR011880, AF218004, X70685, AF120268, A08916, AF219137, AF113019, AF130099, AF061573, X72387, AX014095, AL080126, AL389935, AF130059, AR079032, AK026583, M30514, AK027146, AK027142, AL137550, AF260566, AL359615, AL117435, A08910, AB049848, AL110171, Y10655, A18777, A08909, AL122111, AK024538, AL161953, E07108, AF200416, AF003737, AF159141, Z82022, AK025209, E06743, I17767, AB038698, A90832, AL137558, AK026542, AL035458, AL110225, AL137656, AF057300, AF057299, I89931, AL137557, AL133093, AK027200, AK025084, A08912, AX027129, X72889, AK026462, AR087170, AL080159, AF017437, AB050510, AX005848, AX005804, AJ012755, AL137479, AF266204, AR038854, AK026629, AF026008, Y16258, Y16257, E02756, Y16256, A08908, U58996,

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H6EEO05	22	865424	1 - 1411	15 - 1425	AA702164, AA001233, BF736596, BF306026, AW976026, N58476, AI921716, AI922691, AW341468, W52817, AU149400, AU149229, BE207816, AA983287, AI688164, AA748673, AI798829, AA676905, AW769397, BF431049, T03435, AA580477, AW261835, AW020522, AA031269, AU146658, AA811284, AI470013, AL516603, AA553821, AW468092, AU155046, N31376, BE301482, AW473322, AI040689, AA203586, W67599, R69536, AI369176, AI223241, AA954674, N78065, AI081505, AI184844, BG119995, AI084955, AA634485, AI858188, N24082, AI240972, AA227367, AI220515, W67600, AI207036, AI278789, H95812, H72498, AI016960, AI206577, AW016403, AF202355, AA989138, R87799, AA889751, AI079252, AA235634, AI862906, AI129076, BE871844, AW953096, AA995470, AA864442, D29420, AW089244, AW264543, AW996210, R13771, BG105546, AA665921, AI308113, BF758203, T57104, N55702, AA918086, R87736, H72897, AA814465, AA932962, AA634537, BE313440, BF816643, AA775542, AW627925, AI735374, AI240618, AA907067, AI023689, BF970142, AA747793, AI648677,

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H6EEU40	23	757048	1 - 937	15 - 951	AL534759, AL521087, AL523775, AL518427, AL518354, AL517326, BE741563, BF569745, BF337372, BF570471, BF969174, BG032740, AL536265, BF026597, BE274743, BE546314,

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H7TDB54	24	845956	1 - 215	15 - 229	
H7TMB95	25	597427	1 - 494	15 - 508	AL133381, AL133385, and AL133381.
HAAAT06	26	897933	1 - 1085	15 - 1099	BF718797, BF974159, AI188455, BF033060, AW960634, BF244139, AW131552, AI097214, AW770118, AI479963, AW009452, N31953, AW081547, AI335977, AI762159, N54405, AU147719, AW027335, BE762877, AA906378, AA844148, AI129620, AI138490, AW574571, AI129265, AA761562, AI034375, AI309628, AI051106, AA630084, AI032728, AI074132, AI471599, AI339926, AI189152, AA927339, AV710898, AI809033, AA808345, W45195, W56021, BF038798, AI369598, AW181953, AW959382, AA604051, AI301504, AA908734, AI243700, AA116133, AI302040, AI250836, T16006, AW166610, AA905111, AI061222, AI244792, AI025631, AA815302, AI040662, R47459,

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HACAD42	27	634372	1 - 976	15 - 990	BF345250, BF345193, N62815, AW005906, AI923688, AI056483, AI860283, AI360248, AI360301, AI201905, R88275, AW027590, AW000872, H14214, W01327, AI880096, R89051, Z41527, F03748, N78561, AV703086, AV709580, AV704785, AV727822, AV707401, AV727618, AV708786, AV725618, AV706223, AV651897, AV653353, AV652528, AV725582, AV729473, AV702164, AV726590, AV706407, AV728743, AV704626, AV709356, AV708520, AV728546, AV708872, AV726194, AV660258, AV701874, AV703632, AV701858, AV725031, AV725577, AV702781, AV661286, AV725991, AV703214, AV703168, AV709935, AV654035, AV709880, AV725255, AV704756, AV692972, AV691615, AV725617, AV685688, AV689800, AV687909, AV728997, AV706882, AV701183, AV727314, AV660096, AV706076, AV728715, AV707268,

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HACBS86	29	603946	1 - 1388	15 - 1402	AL535128, AW968744, BF672747, BF057551, BF435014, AW007137, AW245650, AA780279, BF030193, BF574567, BE300831, BF977868, AI793310, AW293287, N28662, BF670345, AA779678, BF115398, AI860715, AI338052, N21462, AI215736, AA193443, AI970590, BF215778, AW024993, BF195087, AI335708, AI801988, AA054377, AA625726, AI804150, AI494472, AI538741, AI554715, AI041171, N70796, W28545, AI681168, BF884295, AA625518, N30415, AL535129, N34010, AA843614, AA902129, AI539587, BF058806, AA054341, BF939805, N25178, AA740498, BF732371, AA837372, N36045, AA633263, BG013150, W26738, AI133235, AI167300, AW293926, Z39311, BF061065, W01430, AI873575, AA988171, AA578434, AA130043, AA928867, F06397, AW604448, AA887702, AA628170, T90232, F25847, AI161005, AA737275, R43958, R80116, F36933, AI500481, AW581013, BE814412, AW581011, AW580992, BG009195, AW581008, BF434035, AW580997, AW385874, AW385879, BF732506, BG005647, R80006, AW149452, AA171570, AI783960, F36938, AA134037, AA490935, AW373958, AW615651, AI799599, AI221918, AI073802, BF195695, AI283500, AI673019, AI383128, BF003135, AW206905, AW137599, AW135515, AW138069, AW749994, AW577486, BE675190, AW206106, AI915618, AI742378, BF732722, AW247761, AI910691, AA916988, AW148768, AI269736, AI436412, AI367166, BF063292, AU123718, BE464163, BF590529, AI435252, AI457744, AI347913, AW135905, AI813600, AI246734, AI554113, AW072464, AW028272, AI984433, AI475722, AI392621, AI346701, AI686237, AI760620, AW749995, BE940652, AI763130, AI798021, AW268899, AI361657, AI808291, AA736606, AW071723, AW245908, AW173067, AI819790, AW615262, AA491493, BF591379, AW300239, AA255597, N24567, BF434853, AA953659, AA491120, AI078632, R18846, T90676, AA404354, AA884048, AA627596, AI695434, AA768326, AA504620, F36472, AA741044, AA825829, AU137276, AA808017, AA830726, AA521349,

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HACBT91	30	789939	1 - 827	15 - 841	AW957974, AW003857, AI820045, AI523911, AW084836, AI983096, AI333432, AW188197, BF338099, N41047, AI433769, AI379333, AW438811, AA927750, BE139611, AI435307, BF436802, AW613586, R71675, AA678318, AA748856, AA301830, AI337423, AW243869, AA577365, AI382805, AI926335, AA568182, R47922, AA057770, R50081, BE247721, AI539624, AI698267, AI224055, BE244865, AI365443, N47137, AA903242, AV707146, AW955723, AV702790, AV701751, AW962407, AV705416, AI535639, AV705047, AW954994; AV703012, AW957544, BF380516, AV729076, AV707458, AV706060, AV704785, AV701728, AV709232, AW957628, AW954206, AV709235, AV707753, AV686390, AW955616, AW961393, AV725497, AV729376, AV728436, AV697196, AW958846, AW963660, AW951562, AW949999, AI535660, AV728733, AV692600, AV727314, AV703766, AV705319, AW959907, AW950888, AV656903, AW956199, AW957853, AV704180, AV696106, AV706223, AW963378, AW964540, AV727238, AV705869, AV705811, AW953969, AV689111, AW961593, AV695545,

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HACBZ73	31	832528	1 - 952	15 - 966	AI816298, BF593811, AW070255, AI161228, BG059749, AI356073, AI955763, AI859141, AA554787, AI359881, AI445096, AA012918, AL516145, AI623554, AL526214, AL523282,

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HACCK29	32	561629	1 - 991	15 - 1005	AA827722.
HADAB60	33	745367	1 - 450	15 - 464	AI732274, H39989, BE677426, H15823, F26841, T62068, BF197868, BE617537, H28577, H39871, AI469602, H26295, AI707473, AW516380, F35361, H16131, AA348863, R48732, H26107, H50712, H41972, H27223, R72204, H43368, AI820695, H43320, AW007846, R53594, R53580, H26452, AX017493, AC011498, AC011498, and AC011498.
HADAM31	34	604500	1 - 825	15 - 839	AC001084, AC001557, AC008670, AC008670, and AC001084.
HADCL19	35	599065	1 - 1088	15 - 1102	AI567076, BF677892, AV710066, AV729809, AF330238, AW265393, AV760777, AI963720, AW274349, AW858127, BF668217, AI284640, AW419262, BF827410, AI345518, AI281881, AA720702, BF793766, AW407578, AV761362, AI076616, BG249643, AV757607, AW502975, AW575165, AW833862, AL138455, AI431303, AA877817, AV763971, AI696962, AL046409, AW501386, BG222267, AI334443, AU145314, AL045053, AI368745, AV764307, AV761843, AW664193, AV763540, AV710770, AW193265, AW963497, AI801482, AA526787, AA610491, AW303196, AV760133, AV762505, AA908687, AW969988, AV760937, AW969629, BF337291, AW301350, AW131249, AI799642, AI732865, AI613280, AL119300, AV763354, AI270559, AA579179, AI623720, BG236735, AA402129, BF679304, AA455483, AV691147, AL048925, AV713243, AW088846, AA649642, AU147193, BF680639, AI679782, BF915247, AL042753,

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HADCZ65	36	683227	1 - 1098	15 - 1112	AI092552, BF817060, BE173784, AV748593, AC006006, AL121958, AL163249, AF124730, and AL133387.
HADDC04	37	601695	1 - 2517	15 - 2531	BE613004, BE613166, BF974661, AI500315, N48208, BE618336, AA226104, AA774105, W38468, AC010553, AL050349, AL121899, Z83822, Z82193, AL080243, AL031280, AL049779, AC008969, AC005052, AC008760, AC006057, AC006958, AC022596, AP001714, AC011290, AL035460, AC006441, AC005217, AL121890, AC007955, AL121658, AC007383, AL354943, AJ246003, AC004890, AC020552, AC004491, AL033529, AF243527, AL021407, AP001717, AC007136, AC011491, AC004983, AF233882, AC007263, AP000300, AL353777, AC004686, AC006530, AB023048, AL117382, AL096791, AC011473, AC002117, AL158828, AL133544, AC011455, AC006111, AL049576, AC005736, AP000510, AC005484, AC006115, AP000045, AC008474, AB042297, AC004887, AC018663, AC006014, AC005049, AC012153, AP000113, AL008718, AC007216, AC011465, AC004929, AF235097, AC003071, AF001552, AL049832, AC016601, AC007639, AC005488, Z99495, AL121923, AC004638, AC011445, Z98200, AC009530, AC024082, AL161781, Z95113, AC006071, AC005098,

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HADDP23	38	847115	1 - 940	15 - 954	BF920973, AA937934, BE536730, AL365360, AC022252, and AL353606.
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HADEY08	42	799507	1 - 4040	15 - 4054	AL041330, AL532631, BF342382, AL039218,

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HADEY22	43	704584	1 - 438	15 - 452	AF125348, AC006159, and AC006159.
HADEY22	44	861628	1 - 611	15 - 625	AI241976, AI279417, AI583466, AV734149, AW128881, AV710232, AW265688, AW895394, AI570380, AW895315, AW895463, AW895486, AW019964, AI445914, AW895376, AW895398, AI859906, AW895286, AW895289, AW895476, AW895321, AI306232, AW895480, AW895293, AI733856, AW274191, AI358712, AI753672, AW895322, AI251034, AA827383, AI381490, AW895461, AU146063, BF897648, AI284543, AI049701, AW895477, AL042667, AL042670, AW895389, AW895374, AW895404, BE062478, AI361090, AW895385, BE139139,

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HADFW20	50	599066	1 - 1106	15 - 1120	N68423, N68430, AI627688, AW297764, AA557945, AI572680, AW021674, AW873417, AW839858, AA779599, AW504667, AW327673, AW979200, BF846619, AI318548, BF812696, BE044000, AW338633, AI732327, AA935827, AI344906, AA723282, AI860423, AA280886, AI860648, BE139230, AI921744, AW516250, AA828840, AA525818, AI434103, AW008217, AL121039, BG180320, AW157128, AI702049, AW162314, AA112864, AU146789, BE080768, AA133568, AV741384, BF944618, AI038029, BE042324, BE049409, AW277240, AA493464, BG003974, BG059139, AI444575, AI570067, AI254267, AW023390, BF942991, AW265468, AI281622, AI280566, AA618531, BE152006, BG059924, AI571094, N49298, AA554289, BF913232, AA601336, AI744890, H86399, AA604601, BE062545, AW731858, AW576388, AA197089, AW514844, AI798521, AI003068, AA694596, AA167656, AA661583, AI640905, AA493245, AW148821, AW162332, H47461, AI701898, AW274180, AV763460, AW105463, AI267285, BF314404, AW023975, AA593168, AA157876, AV720226, AI884404, AA525753, AI253347, AW662484, AI547110, AA196287, BE065048, AA313025, AI445768, F35374, AA132929, AA521122, AW850985, AI821901, AF114095, AA632355, BF849260, AW962971, AA493808, AV735017, AW880986, BE156611, BF771562, R92703, AW243817, AI174827, AA834891, AW974283, AA635433, AW410844, H62123, BG223498, AA663579, AA847341, AA101744, BG118544, AW131109, AI188327, BE244547, BF666614, BF870098, AA601376, BF853009, AC009314, AC011464, AC005003, AC007240, AL121928, AC005913, AF148460, AC002350, AC009506, AC005253, AP001724, D85606, AL121601, AP000257, AB025285, AP001712, Z68273, AL161757, AL035684, AC003665, AL023803, AC007011, AL138759, AC010150, AP000098, U85195, AC024563, AC005202, AC006111, AP001675, Z98272, Z73900, AC004531, AL031286, AL121845, AL136137, AC016144, AE000658, AC008379, AC000355, AC006328, AJ229041, AC012005, AL035455, AK022821, AJ003147, AF111168, AC005534, AC008543, AC004400, AC004812, L78833, AP000958, AF064859, AL356299, AF045555, AC007055, AL034395, AC011480, AC022137, AL021391, AC021016, AC005747, AL137881, AC004816, AC011533, AC005330, AC005844, AL121886, AC003014, AL035588, AF217413, AC002558,

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HADFX10	51	741054	1 - 1264	15 - 1278	BF681546, AW969667, AI733856, AF139813, AC004228, AC003025, Z94056, AL139390, AC004840, AL137129, AL163249, AC020913, AC005899, AC010150, AP001717, AP001743, AC011444, AC018639, AC016995, AC005384, AL133246, AL109797, AC003070, AP000493, AL139123, AC015971, AP001748, AC004125, AL391122, AL162831, AL159977, AC005412, AC004962, AC004491, AL133467, AL050318, AL009177, AC007283,

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HADFY80	52	654831	1 - 728	15 - 742	BF511472, AU127911, AL514006, AI651629, AW163823, AA464646, AI612015, BE897632, AW162071, AI656270, AW891165, AW081143, AW022682, BE621256, AW366372, BG001293, AI885949, AI804505, AI612014, BF339322, AI494201, AV757067, AI950664, BE172412, AI345224, AL041150, AI311892, BF814521, AI955906, T99953, AI886415, W33163, AA888196, BE965481, N29277, BE779203, AV721874, BF814408, BF811808, AI254226, AW020592, BF868927, AW059828, AW022494, AI264629, AW075084, AA494167, AW020288, AI310925, AI312399, AI349937, AI292193, AI334884, AI307543, AV738730, AI345251, AW071412, AI811192, AI307708, AI336513, AI312325, AW071395, AV738918, AV739798, AI340659, AW071377, AI311159, AI348895, AI336495, AV737782, AI340644, BE138684, AI537837, AL036652, AV736474, AI334930, AI309443, AV744972, AI307520, BF840692, AA468418, AI869367, AA654165, AI345026, AI313346, BE544111, AI918408, AI340664, AI310592, AI307542, AI345739, AI345674, AI312143, AA835966, AW079334, AI349637, AI334920, AI002285, AW071276, AI310927, AI307578, AI336488, AI349955, AW075093, AI310930, AI312432, AI312357, AI567351, AA862606, BG058039, AI344931, AI312237, AL040694, H89138, BF764538, BF753053, AI420796, AI349213, AA693347, AW269097, BE885353, BF724157, AI801167, AW806761, W48671, AI538790, BF872670, AI280561, AI371228, AI690946, BE909551, AW083168, AV728471, BE886728, AI345735, AW089689, AI868163, AI336633, AI801325, AI631216, N22406, AI916419, AV742698, AW058233, AA012905, BE964078, N36182, BF791874, AW268261,

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HADGD93	53	826467	1 - 1019	15 - 1033	T89808, AW445047, AW449791, BE857368, BF431347, BF114958, AI795971, AW771616, AW751065, AI473887, AI000663, AA515382, AW844933, T89904, and AC010990.
HADMA77	54	783049	1 - 1899	15 - 1913	BE886986, AL118575, BF963505, BE896957, AA019981, AI871227, AW958870, AI148306, AI090074, AA594961, AI620245, N62115, AI499838, BE139496, AA253149, H37934, AW953772, AA398760, BE883579, AW008316, R17479, AI934670, AA253150, AI436173, AI446137, D59581, AI128007, R54297, H42535, D61056, D80139, R61184, AI197892, AA729655, D51488, H55864, H55771, AI075689, AA911710, AA292804, H86756, BF963502, T57670, AI961860, H42534, D51454, D81542, T34704, D80154, D81775, AA001440, T59256, D59479, R42975, R61185, AA994602, D51481, D51437, D59463, D59482, R46039, R51909, AA359928, AA659063, N79566, Z40268, R25021, R42826, D52193, Z42365, AA358058, T57710, AV656695, AL048093, R43779, AW276733, AA365016, AL048094, F01883, AA708838, C14366, N78346, AI601109, W16551, R18081, C00235, BF663261, AC018656, AC018656, AC018656, AC007944, AC007944, and AC021874.

HADXA10	55	772423	1 - 1978	15 - 1992	AL520379, BE728240, BE270748, BE563192, BE747293, BE616025, BF310134, BF206071, BG261043, BF204862, BE545976, BE729057, BF038936, BF675547, BE256389, BE276099, BE788900, AW410129, BF308046, BE387325, BE408780, BF244181, BG163620, BF310098, BF685442, BE270749, AA167070, AA595202, BE304399, AA166712, AV703692, BE537629, BG169509, AW006548, AW410130, BG171506, AV710363, BE393095, BF307791, BE617132, BE870070, AW361375, BE018109, BF125720, BE018088, BE616932, BF218030, BF507493, BF540895, BE906493, BE255013, AA541691, BF376341, BF836047, AI744106, AI275900, AA993705, AA570550, N25461, BF029481, C05079, BF196260, AA889358, AW104053, AI350305, BF185767, BF370885, AA215410, BF437962, BF508953, AI089241, AW261873, AI497768, BE831576, BE831566, H18557, AA134178, AA846560, AW341240, AW081872, BE673528, BF927401, AI978665, T64162, AA632468, H14432, AA134179, BE395917, BE091064, BF358799, BF359337, AW178636, BF358802, W22499, AA304799, AI653587, BE677600, AI885460, AI279015, AA095130, BE092495, AW601699, N42506, AI344456, W38700, AW150858, AA366810, BE710901, AA179114, AI658559, AW130294, AI302234, BE301577, N29814, AI903900, BE091130, H92212, AI521519, AI033015, AW058536, AW501606, AA305613, AA143566, H63841, BE548654, AA808514, AW601698, AI203740, AI076514, T64291, BE617717, AI097603, AA319609, AA079129, M78187, AA593710, AA232208, AI300090, AA232710, AA991543, BF927447, AI393752, AI003412, AA657813, AA481443, N50147, AI524438, F27490, AA404267, F37077, AI632386, BF447367, BF352235, BE301594, D25983, W30874, AA143567, AA731107, AA627438, AI765285, AA658165, AI239690, BF359954, BG025231, AA248062, BF351238, BF355595, AI770138, F29157, AA991539, AA991535, H14382, BF110530, BE839062, BE208658, BE879215, BE767250, BF330903, BE737607, BF432290, AI743174, AW674239, T33198, AW207869, BF354800, BE163436, AW953180, AW300178, AA079130, AI681045, AA775347, BE465391, BE085119, AA179113, BE073669, BE617593, BG007497, BG001568, BE738590, AI752143, AI241635, AA634670, D50987, AW183393, BF672618, W46344, AA552207, AF151907, AK025046, AK025260, AX015060, AX014857, AF219226, and AC015971.
HADXA10	56	859777	1 - 1372	15 - 1386	BE616025, BE747293, BF038936, BE545976, BE788900, BF244181, AV703692, BE276099, AV710363, BF204862, BE729057, BE393095, AA541691, BE870070, BF308046, BE018109,

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HAFBB15	57	608180	1 - 1719	15 - 1733	AI378241, BG258310, BE855677, AW958055, BF196802, BE958177, BE784709, AI016431, BE855640, AA887947, AA843477, AW963766, AW026139, AI472824, AA744678, AI378170, AA767727, AI003236, AI399815, AA146803, AI081395, AI361091, N34655, AI587389, AA380690, AI080717, AA703684, AA878646, AA962414, AA661648, AA864189, AI587400, BF038644, AW516559, AA961155, AW304176, AA304344, AI983339, AV762220, BF476713, AI130008, AV760760, AW962035, AW088309, AI264094, AA487844, AV700498, AA037291, AV761207,

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HAFBL14	58	832502	1 - 2708	15 - 2722	AV681945, BE393775, AV707348, AI310524, BG255334, AW954049, AW292959, BF439642, BE046071, AW672996, BF983667, AW338657, BE176420, BE176414, BG058638, AI904975, AW675166, AW960574, D81671, AI359989, AV724010, AI168601, AA887798, H08346, W76134, AA884661, H11971, H08347, R56814, D60404, AI572974, AA084593, AA905257, W72908, AA323809, BF030693, D81504, AI925990, AA081637, R56815, Z43073, AA830560, AL120010, BF840294, AA306604, AA055620, BF366776, BG028055, AI671677, AA196285, AA723974, T36044, AA382746, D60403, D60188, Z39166, BE936303, AC011767, and AC011767.
HAGAB62	59	588471	1 - 1080	15 - 1094	AV685350, AV686741, BF690807, BF793210, AA628971, AA583342, BG025143, AV714582, AI819853, AV694025, BF509887, BG029991, AW952438, W72055, BE892918, BF979176, AI887350, AW069598, BE245115, BE966065, AI669446, BE893079, BE897999, AA928346, BF239173, AW264574, AI245982, AI276045, AA828393, AW305033, N57490, AI399953, AI478692, AW130656, AW131233, BE645316, AA167004,

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HAGAB83	60	823044	1 - 1825	15 - 1839	AA677626, AW021917, AI345157, AI963720, BE395137, BG223550, AU131834, AL046409, AV710482, AI284640, AI305766, BE139267, AW193265, AW970896, AI431303, AW021886, AL040054, AW975049, AW500684, AF330238, AV764307, BE139358, AA904275, AI620585, AA226584, AI783911, AI755214, BE049095, BF804385, AI754567, BF941382, AW969667, AI613280, AI345695, AA122223, AI754105, AV756491, AW500250, AV755512, AW576251, AA602906, AW270258, BF325535, AF074677, AV760937, AV710066, AV728425, AI753488, BF724372, AL037683, AI270117, AV762111, AV735370, AW302903, BE063437, AI003611, AW973992, AI345654, BG222269, AL133668, AI061313, AV763971, AW419262, AW576391, AW855730, AV725423, AV759274, AA634786, BE154617, AI054333, BF965775, AW963497, BF925233, BG236628, AI350211, BF991208,

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HAGAE84	61	847117	1 - 1950	15 - 1964	AW868688, BF903194, BF903192, BF947024, AL530096, BF969320, AI654555, AI968086, BF932862, AL109627, AB037753, AL109627, AL109627, AL109627, AL358794, and AL358794.
HAGAF75	62	561933	1 - 1316	15 - 1330	W74621, AA454202, AI698781, AW118630, AU153969, AI693403, AI091680, AI291680, W94325, N80093, N64659, AA045084, AA633674, R78232, N79293, AI348731, AV756074, AI611902, AI216978, AW270355, AI753365, AW086257, AI254798, BE139371, AW576389, AL138265, AV713396, BE182951, AI348302, BF769218, AA504951, N34172, N34275, AI076396, AI612152, AI540408, BF325535, AI245679, AW271917, BE676932, AI624024, AA593471, AL038909, AW088049, AL041749, AW075915, C06471, AA748121, BE072954, AA747889, AW975049, BF809771, AI053981, AU152795, AI636627, AW271904, AI345657, AI244758, AW839172, AI349966, AU144397, AW839174, AV761745, AV758600, BF832917, AI345717, AW105737, AI358229, AI915293, AV762917, AW973075, AV762030, BF436771, AL040072, AA984191, AW964231, W60516, BF982842, AU147774, T05834, AA745356, AW238127, AI078465, AA469451, BF814963, AW872729, BF882608, AW501347, AV731284, AI610603, AU145499, AW406755, BF996303, AW008317, AI561116, BE677379, AV760051, AA468271, AW402145, F17700, AA765979, AL038901, AI144094, BF850690, AI301218, AA779075, AV757395, AW939095, T40848, AW407578, BE006520, AA579184, AI873916, R45325, H81732, AU147258, AI457397, AW968184, AI049986, AI076236, AI309384, AI890348, AW024017,

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HAGAK40	63	731929	1 - 1490	15 - 1504	BE646470, AA968556, AW804902, AI309292, AI971924, AA309871, AW272389, AW962971, AW275432, AV761676, AI733523, AW021399, AW008217, AW855527, AA525753, BE077105, AW162314, AI572680, AW020094, AI860423, AA720582, BE073116, BE138690, AW173443, AL036896, F29968, AA584493, AA640104, BF880881, AW069227, T49633, AI290405, D80628, AA858433, AI049845, AV763460, AV757180, AA601376, AW162332, BE676856, AW169183, BF725837, AI797998, AU158606, AU155104, H81406, AI031759, AW238341, AV717715, AA584241, AV763951, AI634187, AI299891, AI745666, AW277000, AW813589, AA526542, AL044701, AW277093, AA604149, AA595661, AA577706, AV759234, AA507499, BE155099, H77492, AI570067, N49298, BF871414, AW957502, AI457313, AI174703, AA630476, AI144125, N70293, AW674631, AI590404, D80627, AW979200, BF525663, AI499954, AA661583, BE782865, AV763877, AC067969, AC002470, AF053356, AL353701, AL445687, AC006121, AC018801, AP001667, AP001714, AL353807, AC009228, AC004834, AL109827, AC020904, AC008753, AL049843, AC003110, AC011455, AC005233, AC010082, AC005082, AL157372, AL117336, AC007040, AL161907, AL031847, AC009484, AC018642, AC005696, AC004983, AC005914, AC027319, AL136418, AL355385, AC011479, AC016995, AL050335, AL121712, AF001551, AC011444, AL133387, AL121903, AL158040, AL135927, AC007227, AL109758, AC002565, AP001207, AC004820, AC005529, AC006088, AC002404, AL158830, U91326, AL139095, AF129756, AC004663, AL136097, AF111168, AL022163, AC004099, AL109923, AC003007, AC003665, AC008747, AC005011, AL121653, AC005516, AL159168, AC004383, AC008745, AC011453, Z99128, AL133255, AC020917, AL138743, AC008985, AC005484, AL049636, AC007358, AC010271, AP000503, AP000356, AC000025, Z99716, AC010205, AL137139, AC019227, AC016597, AP000152, AC006449, AC006511, AL049776,

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HAGAU43	64	844223	1 - 1814	15 - 1828	AI672383, AA843868, AA890401, AI638876, AA902665, AI685746, AI085890, AI745556, AI373565, AA708883, AI801505, AI917132, AA732253, BE066244, AA557945, AW407220, AA485699, AA225652, AA120920, AA773291, BG023979, AL040009, AA664942, BF821279, BF740938, AU144477, W01639, R97657, AI572680, BF764268, AA934825, BF764113, BF763390, AA848003, AW247866, BF975979, AA747748, AI049788, T40388, AA728978, AV740105, BF813860, BG058309, BE072368, AW793601, BE245594, BE244722, AV759337, AW963489, BE243879, N57681,

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HAGAZ36	65	564230	1 - 1266	15 - 1280	AA826320, AC026398, AL355871, AL031906, AL359763, AB023048, AC026398, and AC026398.
HAGBC57	66	823117	1 - 1514	15 - 1528	AL517136, AI031756, AW997603, AW051522, AI419715, BE876865, BG026171, BF196918, AW024792, AI820091, AI031536, BG032084, AI750691, BF818873, AW390124, AU154126, BE931727, AI718268, AI676009, AU150604, AI139784, BE539091, AW274463, BE440023, AI339956, BF436526, AW130926, BF732975, AU158281, AW105303, AI671676, AW024774, BE142825, AA767921, AW188678, AU156970, AI635171, AI025101, AI214461, AW272537, BE865587, N26496, AA767689, AW390092, AI127064, AU145788, AI809084, AU156218, AU146604, AA805199, AA127470, BF348772, AA731608, AA907446, AU156566, AA766721, BF093564, BE926378, N32318, AA974930, AA555032, AI560301, AI698721, BF093569, AA605141, AI244410, AU146578, AI564654, AA863384, AU151010, BE327912, AI027962, AI809625, AW674279, AA828746, BE042858, AA481024, AW006219, AW513254, AI493034, BE882746, AA041544, BF026379, AI243791, AW661725, AI439936, R81877, AI024491, AI422228, AA149966, AV732367, H11720, AV660676, AA207133, H88030, BF673863, AW023935, AA701420, AV659798, AW021798, AA449245, AI689338, N21594, AA953330, AW182023, BE693238, AU126655, N57412, AL038441, AW514313, AA227465, N30992, AA737326, BF220041, AA887976, AW804376, AI926405, N35548, AA355007, BG256100, BE274240, AI244073, AI797311,

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HAGBL31	67	679582	1 - 1444	15 - 1458	AI500575, R36673, C15968, BG008548, AC005037, I32741, U40268, U27459, AC002565, AC002369, Z82178, AP001746, AC008506, AC018682, AC004988, AL023284, AL161802, AC018662, AC003012, AP002898, AC004129, AC007383, AL109804, AC002352, AC015555, AC007436, AC005868, AL035685, AC003037, AL031687, AL357153, AL136218, U91321, AC037455, AC037455, and AC037455.
HAGBO09	68	853357	1 - 1524	15 - 1538	AW328331, BF725884, AW970571, AV763026, AV763058, AA714011, AL042667, AL042670, AI755202, AA535216, AI066646, AW970940, AA515048, AI216990, AI801505, AA828637, AA773463, AW962006, AW969667, AA714110, AL038842, BE062159, AA828834, AI753488, AV762633, AI085867, BE062476, AW958962, T47138, AW504224, AA847499, F35374, AW023111, AU146342, AA584862, BF826830, AW769151, BF876683, AW026305, AV755654, AW674258, AV744179, AI421950, AI419337, BF771349, AV715310, BG110480, AW575605, AI587565, BE155951, AW970987, AW328202, AA648957, F25761, AA829044, AW504458, AV730824, AL135377, AW969831, BF525663, AV723671, AI361090, AL119691, AI590485, BF771774, AW341978, AL119921, AI123396, AW962335, AA809546, AI049845, AA513851, AV757289, AI133083, AV734401, AI355559, AI801482, AI434037, AW021917, AA658918, AI064786, BG056362, AW970877, Z83840, AL024498,

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HAGBO12	69	601431	1 - 543	15 - 557	AL042373, AA410788, AL044340, AW819125, BG059314, AI821931, AL036665, AI279417, AW969743, AW995323, AI275982, BE138484, AA833875, AA833896, BG000961, AI733856, H05940, AV764259, AA640986, BF809041, AW341978, AW419262, AV759149, AW805539, AI457397, BG180976, AW575000, BF839844, AW955841, BF725884, AI357823, AW963444, AI612142, AA297145, AW303196, AV759203, AW571963, AV710482, AV764034, AV735495, AI523316, AI908552, AW301350, AW274349, AF075343, AI821714, AI791913, AI003972, AI792133, BF821897, AI620808, AI431303, AL041894, AA483606, AA579179, AV742057, H73550, AW166808, AI583252, BF916934, AL049870, AF111167, AC008806, AL122013, AF196969, AP001731, AL008634, AP000547, AC002288, AF241734, AL033525, AC002394, AC007782, AC004856, AC021752, AC004067, AC005902, AL023096, AC035150, AC007182, AL079340, AL365505, AC006213, AC012055, AC004552, AC009363, AC023473, AL049570, AL163283, AL109853, AL391839, AL133260, AL031284, AC004025, AC006840, AL035691, AC019055, AP000162, AC005233, AL049778, AL132670, AC008372, AL355984, AC004864, AC006061, AC005682, AC083874, AC007920, AC004963, AL031300, AC026179, AL136226, AC002429, AC004941, AL049838, AC005971, AP001671, AL078639, AC004825, AL133320, AL049569, AL138759, AC004837, AC006000, AL137009, AC010389, AJ003147, AC002981, AL357153, AL049589, AC005899, AP001687, AL021578, AF314058, AC005295, AL021877, AC009024, AC010000, AL133383, AL162293, AC007956, AC011422, U50871, AC023158, AC009479, AC022173, AL135960, AC026184, AF017104, AC007102, AP001674, AL109939, Z98884, AL022337, AC019210, AC004087, X87344, AC003015, AC007036, AL162831, Z98051, AC018504, AC068313, AC009362, AC058791, AC007395, AC005531, AL133238, AF165926,

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HAGBO51	70	701965	1 - 1554	15 - 1568	AV725643, AW138670, AI418999, H99667, AV724847, N23660, N47443, N49957, N49972, N28419, N48335, N49060, N34714, N52712, Z40380, N47442, N50103, Z44455, N52748, AC011504, AB002388, AC011504, and AC011504.
HAGBS89	71	846292	1 - 1214	15 - 1228	AW327801, AI732720, AW023975, AW084445, AL042667, AL042670, AA916430, AI801563, BE328286, AW026305, AI421950, AI419337, AW963450, BE154381, AW968167, AA995373, AW771062, AA282951, AI361090, AI025355, AV758870, BE245594, AA584765, AA658886, AW068596, BF876261, AI571161, AW105463, AI734119, AF030453, AC005088, AC005087, AC020917, AL445490, AD000812, AC005486, AC010458, AC007375, AC002126, AC004883, AL136979, AC011811, AC027319, AL049843, AC007383, AL135901, Z82201, AC005911, AL139039, AP001727, AL022165, AC005067, AC021999, AC020913, AC004826, AC004263, AL021391, Z86090, AL031311, AC004846, AL109653, AC006345,

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HAGBV06	72	701966	1 - 1701	15 - 1715	Z78400, BG028169, BG254596, BF217849, AA218857, AV701245, AV717278, AA195389, BF035193, BE568698, AW022929, AA224200, AA173089, AW378198, AW362624, AI693195, N32553, AW378185, AI400569, AI809750, AW157635, AA888859, AA812760,

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HAGBV25	73	838174	1 - 1882	15 - 1896	AL529008, BE515260, BE883668, AW954489, AW080196, AI983315, BF334314, AI623984, BE715946, AW510817, AI948729, AW118639, BE550687, AW015052, BF838797, AW027261, AI022855, BE815265, BE673761, BF838798, AI290713, AW264049, W26314, AI870376, AW453054, AA936381, BF513488, W27386, AI419230, W25815, AW243987, AI335656, BE644989, AW338467, W60767, N50686, N50770, W60706, AA683604, AI467875, BE901070, AA366242, AI748811, AV691292, AA533514, AI247878, AV689063, AA669692, BE067609, AA852777, AV686532, AI400936, BF516170, AI245377, AA009572, AA377771, AV686537, BE219286, BE677754, AI701600, BF832794, BF949265, N72448, AI636601, AA248947, AA573975, BE166057, AI870365, BE326604, AW070952, BF352156, AA725156, BE792604, BE618204, BF831062, BG104740, BE062973, BE062966, AW582272, AW582273, AW582266, AW856038, AW582277, AW856044, AW391286, AW391297, AW856091, AW861042, D25625, BF334419, BE149815, AW856186, AW391294, AW605980, AI424144, AW605984, BE062987, BE062994, AA861306, N46789, AA573600, BE062969, AW362631, AW605974, BE149710, AW291179, AW856301, BE062984, AW815346, BE062971, AA934441, BF035605, AW391292, AA852778, AW605970, BE150208, BE150206, BE150219, BE150223, AW379898, AK024693, AC002550, and AC003108.
HAGBV29	74	837203	1 - 2061	15 - 2075	AW954632, AA505108, AL038473, AI732911, AW854353, AA831913, AW600804, AU156695, BF346320, BG258140, AA224525, AA736713, AW102955, AA572983, AA491955, AU122155, AA576786, AW954624, AL532829, BE410485, AV764406, AI791227, AA757426, AI281401, AW970987, AW269504, AI538404, AA135386, AP000065, AB022785, AC005080, AC004878, AC010458, AL022318, AC005052, AP000133, AC007880, AP000211, AL138756, AL109797, AC019187, AC005071, Z96074, AL136981, Z83846, AL136305, AC007386, AC007225, AC007956, AC004867, AP000501, AC004448, AC013434, AP001330, AC004985, AL133240, AC010201, AB023048, AL024498, AC008733, AL136300, AC002492, AJ003147, AF196779, AC009756, AL109897, AC009194, AC007345, Z77249, AL133382, AC006948,

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HAGCC87	75	638587	1 - 1578	15 - 1592	AA587370, AA351604, AA661545, R22639, R22638, R18189, AA650370, AI459585, AI810301, R17880, BF434228, BE811111, BE701381, AA572974, BF857849, T50676,

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HAGCH67	76	561934	1 - 1310	15 - 1324	AI701468, AA015989, AF164115, AF164115, AF164115, AC022893, AC022893, and AC022893.
HAGCI69	77	560596	1 - 1200	15 - 1214	AA004654, AI474085, W95976, AW410116, AA714595, AV738942, BF980463, AV755494, AW303196, AW301350, BF797630, AI538433, AW974664, AL079843, AW274349, AI830390, AL138242, AA077817, AW440662, AL037554, AV759604, AW513362, AI370475, AI653636, W95841, AA557879, BE063025, BE147093, AI312309, AW974890, AV700888, AU137841, AL041733, AW872729, AW105737, BF915839, AI537185, BE180636, AV652936, BE018774, AW502975, BE147117, AI872227, AW662543, AU144324, BF826517, AA558697, AW772780, AA493508, AW873225, BE180633, BG166851, AV730307, AW193295, AL049868, U91326, AL050328, AC016644, AL050320, AC009743, AC005193, AC009533, AC006132, AC012442, AC006251, Z82208, AL121585, Z69714, AC006288, AC005564, AC002429, AC007679, Z93016, AC002544, AL049795, AC021036, AL034420, AL138718, AF031076, AC011504, AC005159, AC004987, AL161420, Z93015, AL356801, AC010489, AF280107, AL078586, AC006137, AL031983, Z97054, AJ277662, AL133332, AC005514, AC012467, AC007751, AC008616, AP000476, AL137802, AL356010, AC011510, AC008848, AC006254, AJ251973, AC008872, AC003998, AC005231, AC005789, AC003051, AL360178, AP000555, AC003658, AC022432, AL137790, AL135791, AP000034,

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HAGCT33	78	751796	1 - 1324	15 - 1338	BE670654, AA452395, AA452164, AI276979, BE696850, AA813505, AI142464, BF739318, and AB011104.
HAGCZ70	79	747697	1 - 1672	15 - 1686	AW937022, AA812084, AA837152, T62870, AA174108, BG028665, BF031162, AI114657, AW151541, AI355572, BF679761, AW275432, AA744021, AL043745, AA101744, AV734401, AL036896, AW080062, AI952885, AU118837, AA157876, AW500071, AA524604, BF527620, AI521525, AA720582, AI224583, AL134338, AA595661, AI439525, AI433952, AI090377, AL046457, AI523205, AA019793, AV683406, AV759851, AA493808, AI926102, AW273235, AA680243, AA831426, AA630476, AV699423, AV700654, BE244547, AW963489, AA601265, AI732120, AA427747, AL044489, AA558488, AV760154, BF034649, BF673854, AW151247, AW962791, BE350013,

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HAGDC73	80	724860	1 - 1620	15 - 1634	AL538521, AL538520, BG025342, BG179141, BG253871, BE502436, BE561841, AA521088, AW957550, BE223021, AI472246, AW593837, AW088310, BG254943, AA564072, AA173780, AW274963, BF223179, AA410497, BE392124, BG258474, AA534763, AI453379, AW139930, AI375940, AI435482, AI709078, AA460343, AI953790, AA085512, AW197302, AA632082, BE548509, AI277685, AW594017, AI004272, T78052, AA781997, AA707086, AA173832, AI869067, BE208693, AW953146, AA190979, AW817143, R15898, AA460342, AA861596, AI825206, AI203155, AA098929, AA349781, BE768075, AA410496, BE139469, BE302743, AA835958, BE158708, F06940, Z40031, T33103, AV755872, AW817428, AA993824, AW089638, BE972447, AW953147, BE768329, BE697135, BE697087, BE158706, BE697144, BE697133, BE697148, BF902229, BF373941, and T66524.
HAGDG84	81	745368	1 - 1998	15 - 2012	BF592932, BF131228, AI435489, AI168436, AI660093, AI917105, BE502245, AW170015, AV726309, R69799, F11334, R67877, F11323, D51015, R69800, R81389, R81390, R34017, AI283968, F08994, F08984, R67878, R33479, T16467, AW975618, AW966531, AW966053, AV718844, AV718692, AV718489, AW978634, AV724520, D80391, AW966534, D80196, D58283, AW960553, AV720203, C14429, AW949633, AW975621, AV718770, AV699550, AV699447, D80253, AV719822, D80166, D80195, D51423, D59927, D59619,

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					AX021518, A25909, D26022, Y17188, D34614, AX035434, AR018138, D88547, AR025207, X82626, AR092424, X68127, AF058696, AJ294956, AF260572, AR087649, AR008278, AB012117, AB028859, AR077702, AX015396, AX028130, AR088705, AJ287395, A85396, AR074141, AR066482, A85477, A44171, I19525, A86792, Y12724, X93549, A82595, AR074545, AX042372, A94995, AR060385, AF135125, AB002449, AR008443, A30438, I50126, I50132, I50128, I50133, AX035429, AX035426, AR064240, AB037923, AR066488, AR016514, AX035428, AR060138, A45456, A26615, AR052274, Y17187, AR074139, X64588, Y09669, A43192, A43190, AR038669, AR066487, AR074136, AR066490, AR016691, AR016690, U46128, AR008277, AR008281, AR054175, D88507, I14842, I18367, D50010, A63261, AB033111, AR008408, AR091537, A70867, Z32749, AR093385, AR062872, U79457, D13509, A64136, A68321, AR060133, AR087528, I79511, S69292, U87247, AB023656, AF123263, AR032065, X93535, and AR008382.
HAGDH85	82	596804	1 - 1308	15 - 1322	AI733767, W32407, R00245, AA894623, AI473415, BF592208, AI733097, AA780801, AA635813, AI954911, AA121632, AI657002, AA333891, AA971747, AA503752, T16137, AI888819, AC006054, AL163213, AP001693, AP000221, AP000085, AL096699, AL109622, AC005537, U69730, AL133515, AC009365, AC026239, AL121826, AC013256, Z98304, AL445250, AC023512, AC005229, AL009030, Z92844, AL133226, AL133255, AL157817, AC083874, AL021397, AL079333, AL050334, AC020908, AL163541, AL133408, AC006207, AL356379, AL135785, AL109977, AC006926, AC008774, AC013379, and AC013379.
HAGDI69	83	566758	1 - 927	15 - 941	AA628435, AI937148, AI743806, W22487, BF940876, AW026217, W27139, AI886828, N39405, BF530042, AI041085, AW241824, AI039786, AI147323, H06160, Z39739, H87746, H08862, AI282016, F04656, F01576, H06159, AI474965, BF930136, AI076851, and AB011156.
HAGDJ53	84	821315	1 - 1860	15 - 1874	AK024569, AC007394, AC005823, AC003101, AC006571, and AC005484.
HAGDJ56	85	608181	1 - 629	15 - 643	AV751416, BF343583, BE314794, BG055980, R88597, BF527412, AA723715, AL133591, AC023476, AC023476, AP001979, AP001979, AC023474, AC023474, AP002834, and AP002834.
HAGDL51	86	637488	1 - 1655	15 - 1669	AI745287, BE144831, BE144703, BE144843, AL109825, AC004525, AC007216, AC006441, AL136137, L44140, AF307337, and AC005332.
HAGDO70	87	812393	1 - 934	15 - 948	BE793018, AI769463, AI356558, AI031830,

					BE731497, BF684298, AI031550, BF684893, AI380205, BE279278, AI660438, AI885621, AI769594, AI097072, BE792900, AI934558, BE794986, AI360144, AW054867, AI424951, BE279791, AW162427, AI949561, BF058315, BF439297, BF794132, BF000068, BF210571, AW161305, AI797385, BE793421, BE906337, BF001164, BF213153, BF062542, AA633311, AU118248, AW246798, BE779191, AI187102, BE858102, BE622299, AI039801, BF000099, AW156956, BF000046, BF063679, BF509127, AV739120, AI936274, AI076287, AA811526, BF688621, BE221625, BG116969, AU117707, BE545045, BE785668, AA939220, BE873788, AW082250, AI056053, AA666164, AI369916, BE266469, AI139698, BF033386, AI243213, BF699616, N31693, T83656, AI273742, BE048307, AA011180, AI866508, AI767888, AW950539, BE887997, AA909721, W02905, AI261511, AW242562, AI262688, BF685909, AW247529, AW965717, AA813630, AA813564, AV737552, AI871186, BF871977, AI081698, AW160570, AA936572, AA856634, BE741465, BE622876, BE793885, AA428656, AI311589, AV737215, BE385326, AA970488, BG149450, Z78346, AA766253, AA635097, AI870413, R20556, AA845807, AA524018, AV738195, C14252, BF197218, AA953510, AA313756, AA768686, W63670, AW296189, AW250661, W61082, BF696266, W78032, AA936577, W73567, AI564924, T31320, AA845978, AI365363, AV740452, BG149648, AI382414, AW161421, AA010752, BE466569, AA432316, T16771, AI871341, AA355236, AA554652, AV738140, AW138026, T30318, AA496517, W73486, BE967190, AV754120, Z43576, BE677758, AW407834, AA464346, Z39644, AA312468, T36215, AA496629, T32096, R12657, AI474951, F04508, AA464238, BF683815, AW815646, AI334101, AA554424, T36066, T83819, T32097, BE259649, AA905025, AW247809, AA927164, AA360605, BE871911, AA693690, AW952662, Z42267, D61564, AA024813, D63391, AC006486, D30789, AR065786, AF016047, U57746, AC006486, and AC006486.
HAGDT30	88	589514	1 - 1993	15 - 2007	AU117955, AU141436, AW968937, AA488899, AU144641, AA236471, AW086424, BE967542, AA578559, AU158999, AA488967, BF511939, AW779692, BF083274, N93139, AW964505, D80472, N49728, N67535, D80469, AI401444, H65960, H64629, W26944, AA234580, BG055353, D81703, H65959, AW611626, BF948651, AA319626, AW272379, AI032838, AA610712, H64630, D80471, BF935715, AW895163, BE878388, BE878451, BE878457, BE815176, BE815143,

					BE815141, BE928524, BE172245, BE815541, BE878251, AW901061, BF574171, BF155559, BG013046, AL110277, AK023888, AF075587, AK000968, AL157767, and AL157767.
HAGDW68	89	835631	1 - 1673	15 - 1687	AV707468, N62902, AA575925, AI199172, W01382, T08230, N59867, AC004613, AC012147, L27867, U56651, and AC004613.
HAGDX84	90	638158	1 - 938	15 - 952	AW629485, BF374043, AA551751, AI276054, AA865135, AW769912, AI801287, R02692, AI452478, AA907354, AW965899, AA811656, AI269210, AA907384, AA360295, AI351188, BF359209, BF359245, BF378543, BF372825, AW630447, AW627431, AI032713, BE771072, BE349056, and BE314187.
HAGEK37	91	793464	1 - 1396	15 - 1410	BE885695, AI954822, BF110358, AI743266, BG253794, BF196885, AI760634, AW271501, AI827545, AI742718, AI056389, BG012042, AI742996, BF591372, BE674721, BF593159, AI345994, AI399645, BE644831, AI095920, AW960073, AI740512, AI161170, AI340159, AA042845, AI523616, AI767764, AV755834, AA725288, AW022272, AI627295, BG012031, BE326462, AI281249, AW006705, AI346590, AI128032, AI015853, AW769015, W40340, AI204473, AW590494, AI128034, AI123645, AI188777, AW673796, BF475547, AI022905, BG011288, BF109094, BF992433, AA602115, R52506, AW118046, AA515192, AW264138, AI262475, AA991762, AA916813, R78654, AW196224, BF084376, AW242924, BF110959, AI188970, BF992428, H60308, AA044394, AA974230, AA679929, H06796, AI039216, AA908995, BE464694, AW169928, BF991455, H06746, AA811173, AA173463, R95064, AW840763, AI525406, AW664846, AW016279, N93971, R68549, N47339, R23711, AA528788, AA361543, AA360102, AA338135, AA855121, AA321497, BF818645, R08057, AI198761, R25596, R08008, AA173408, R52507, R68255, H60309, AA931450, R67408, AA847526, Z41402, R26665, N58656, AI304613, BF758492, BF082729, BE931134, AW189301, AL514087, AW081298, AI685211, AI826225, AI800648, AI922689, AL513951, AI933903, AI567582, AI591201, AI475394, AI801152, AI624693, AI784214, AI696398, AI625384, AW263569, AL513999, AA738104, AI978720, AW075484, AI582413, AW194014, AI889213, AI932638, AI628254, AI470648, AI573167, AI521244, AI569579, AI690472, BG116849, AW078543, AL514219, AI621341, AI830259, AW150778, AW190487, AI686258, AI499191, AI811785, AI814087, AI811353, AI954183, AI247005, AI700159, BF039003, BG109125, AI637584, AW073697, AI434134, AI471712, AW081322, BE963236, AI819663,

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HAGEK86	92	748222	1 - 1745	15 - 1759	AI184199, AI812085, AA551051, AI985874, AA554516, AA572876, BE042959, BF437322, AI568911, AI417255, AI189803, AA454958, AA470735, AA454959, AA936950, AU144833, AA491156, W73764, BE218577, AU145281, N25998, AI524274, AA565746, AW593138, AI291212, AA634200, AI499841, AI221002, AI868000, AA017614, AI216071, AA678082, N44288, AA765130, W16710, AA404739, AU140513, AA029570, BF001391, N25023, AI675073, BF090597, AA861842, AA131535, BF356391, AA026208, N30501, AA429220, AA397401, R88681, AA053270, BE763707, W69276, AI572538, AA548868, AA844003, BF221614, AL135541, R31141, AW628894, N99486, N21445, BF886573, BF886582, T05147, AA053651, AA728969, AI040729, AI597753, AI379452, AI242896, AA700624, AA720726, AA229753, AA350787, AA161234, N36630, AA759161, AW194720, Z20643, AI445697, AA490457, BE045381, BF839232, AA056063, BF365632, BF769054, AA036667, AA229961, BF365615, BE763815, BF082462, BG253127, AA100072, AI040719, AW842266, BF872894, BF753547, AW604832, C18419, AF035812, U15138, AB008521, AB008524, AB008523, AB008522, A75279, AC018557, and AC018557.
HAGEP30	93	604478	1 - 796	15 - 810	AL048969, AF114095, AI732720, AW084152, AL042667, AL042670, BG231195, AA640305, AA324108, AI609984, AA489390, BF673743, AA199578, AU150583, AA507623, AI609974, AI610012, BE880692, AV706458, BF530611, AW238341, AW069110, AV763460, AW072963,

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HAGEQ58	94	695945	1 - 1661	15 - 1675	AW975618, AV724520, AW964541, AW960486, Z21582, D59695, AV702035, AW949586, AA809122, AV727418, D52291, AW966330, D59627, AV719783, AV720464, AV718692, AW964532, AW966054, AW949634, AW960465, AW975621, D80949, D51079, D59551, C14014, C14077, AV720104, AW973330, AV720791, AW965158, D80164, AV719468, AV718800, AW949654, AW965185, AW965197, AW973488, AW966043, AW966333, AW966380, D80247, AV719822, AW952852, AW966050, D81026, C15076, AW960520, C06015, D80258, AW966013, AW960454, AW966400, AV720150, AV655880, D80195, AW949646, D59503, D80045, D59502, AV719632, AV718487, AW962395, AW966332, AW960514, AW949658, AW966053, D59317, Z30160, AW959799, AW966041, D80133, AW966399, D59275, D45273, AW966062, AW966022, AV718427, AW949641, AA305578, AW966534, AV719188, AW961136, D80269, AV699927, AW978648, D59467, D80038, D50979, AV719644, D80227, AW959597, AW959570, AV719913, AW965175, AV700229, AV700622, AW959062, AW964477, AW949500, AV726609, AA305720, D31458, AR016808, A84916, A82595, A63887, Z82022, X64588, AR070327, AR087649, AR077702, AR092424, AB028859, AJ132110, AR060385, AB002449, I14842, I79511, AX027925, AC019197, AC019197, and AC019197.
HAGEQ67	95	838445	1 - 1191	15 - 1205	BF673365, BE048349, AV654020, AA873363, AA593668, AW974054, AI183298, AI288486, N91687, BF439344, AI525627, AV653421, AI185882, N70632, N68673, AI205883, R62964, H58308, R79064, N54939, AI205885, AW129141, N41012, H78978, N53116, AW469162, AA975901, AA602558, AI061419, R78756, R63545, H94455, H72843, AA985388, AA854763, AA780852, H65073, R92768, T83578, W05514, R06290, R28494, AV650793, F27018, R92783, BF361829, AV650271, AI740671, H94547, D45582,

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HAGEU26	96	608183	1 - 470	15 - 484	AI365624, AC004985, AC008403, AC004084, AC005225, AL121749, AC011491, AC005102, AL035633, AC020916, AC007011, AC007510, AL133215, AL355860, AL355860, AC027069, and AC027069.
HAGEW83	97	617111	1 - 1055	15 - 1069	AI022829, AI688133, AW613993, AA424600, AI199807, AI377792, AI082319, BF508550, AA973124, AI139622, AA919112, BF964703, AA424534, AW573201, AI698592, AX006438, AP000648, AP000648, AP000648, AP000827, AP000827, AP000827, AP001769, AP001769, and AP001769.
HAGEX49	98	834502	1 - 1461	15 - 1475	AL527582, BE790638, BE798859, BE797447, BF219887, AL534083, BE265170, BE254222, BE260202, BE252841, AI871383, AW468771, AI871247, AI950168, AV729719, AI341054, AW902244, BE262475, AW298755, BE799370, AA219669, AW003970, T89093, R60840, H16750, AW128954, AW902151, T15945, T15826, M78963, AW003981, AW248478, H51569, BF768788, T15528, AA339026, AI005611, F10274, H51939, D51509, D51121, BE504760, BF970449, BG166654, AI648684, BE964497, BF726146, BF904180, BF038804, BG112879, AI499974, AV743631, AW163823, AL135065, AW104056, BG032856, BG111850, AI648567, BG112718, BF527014, AW303089, AV733205, AI254727, BF814541, BE781369, AI364788, BF726207, BE965169, AW952439, AL119791, AA830821, BG036520, BF344031, BG178689, AW999906, AA807088, BF569448, BG107315, AV757240, BF885675, BF750879, AV681987, BG168185, BF339594, BE965355, AW168693, AL042384, BG165979, BF870154, BE897632, BE965067, AW834325, BE965192, AI690946, AV710937, BG105895, BF924882, AI499652, AI308035, AW268060, AI269580, BE621256, BG029053, AI290153, BE826058, AI689420, AW302973, BF726118, BG107576, AW162189, BE963286, AW074869, BF061283, BE047952, BF339322, AI309420, BG180996, AW172723, AI244380, BF752999, BG260144, AA640779, AI280661, AI336575, AI698427, AL120853, AI537617, AI889147, BG113224, BE789764, BF960601, AL110306, BF815196, AI567582, AI929108, BE965432, AW023338, AI343112, BE965481, AI611743, AI800464, AW118373, BE964213, BF750927, AW268253, AW301300, AI349598, AW075207, BF909758, AI345735, BE884910, BE966011, AI799235, AA420722, AI436429,

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HAGEX49	99	844227	1 - 1461	15 - 1475	AL527582, BE790638, BE798859, BE797447, BF219887, AL534083, BE265170, BE254222, BE260202, BE252841, AI871383, AW468771, AI871247, AI950168, AV729719, AW902244, AI341054, BE262475, AW298755, AA219669, BE799370, AW003970, T89093, R60840, H16750, AW128954, AW902151, T15945, T15826, M78963, AW003981, H51569, AW248478, BF768788, T15528, AA339026, AI005611, F10274, H51939, D51509, D51121, BE504760, BF970449, BG166654, AI648684, BE964497, BF726146, BF904180, BF038804, BG112879, AI499974, AV743631, AW163823, AL135065, AW104056, BG032856, BG111850, AI648567, BG112718, BF527014, AW303089, AV733205, AI254727, BF814541, BE781369, AI364788, BF726207, BE965169, AW952439, AL119791, AA830821, BG036520, BF344031, BG178689, AW999906, AA807088, BF569448, BG107315, AV757240, BF885675, BF750879, AV681987, BG168185, BF339594, BE965355, AW168693, AL042384, BG165979, BF870154, BE897632, BE965067, AW834325, BE965192, AI690946, AV710937, BG105895, BF924882, AI499652, AI308035, AW268060, AI269580, BE621256, BG029053, AI290153, BE826058, AI689420,

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HAGFD75	100	847119	1 - 1053	15 - 1067	AA857459, AA521163, AL138010, AW959778, W73720, BE217926, AA833866, AW021505, AW960382, BE547620, BF196658, AI912413, AI651850, AW197675, AW026833, BF057033, AA714734, AW612922, AI291477, N32292, AI803076, BE139073, AI696888, BF589879, AI672736, AI125980, AW021543, AI333787, AI394295, AA315831, AW300608, BF433618, AW438803, AW798872, AA732153, AI473872, W73704, BF589483, N95267, AI347757, AI869053, AA865121, BF439924, AA216377, AI160735, W15211, AA410397, AV739551, AW337871, AA526709, BG150420, AW959772, AA026470,

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HAGFF43	101	821316	1 - 1830	15 - 1844	AI912975, AI123532, AI740649, AI742960, AI927845, AI431795, AI962899, BF431588, AA115106, AI341128, BF445355, AI635323, N48187, AA910199, AI082125, AW961284, AI167508, AA115107, D62520, AA302827, C01777, N53334, AA327801, N52675, N49746, AV733683, D62457, AA910980, AA234196, AA514715, AA503357, AA333721, AW149579, AW611707, U10303, AR027719, AC068047, and AC027532.
HAGFJ67	102	861680	1 - 2108	15 - 2122	AW976110, AA214080, AI769673, AW069286, AA722813, AA503101, AI131547, AI378850, AI378385, BE503917, N49844, AI367840, AA443026, AA426172, AW150828, AA453753, AW969343, AL523084, AI335682, AA430073, AA463468, AW016254, AI033532, AA425541, W93005, AI373438, AA454019, AI076112, AA747308, AI471960, Z44094, AI434535, R53526, AA291531, AI280478, W93006, AW016405, R50852, AI081696, AI219348, R35192, AI698625, BE698931, T89701, AW594327, T16616, Z40118, AW865791, AW947328, H01675, W42758, AW466986, AA760631, AI830647, AL523085, H13648, H13649, T89799, W42701, AW969345, AW969483, AW865604, BG113370, AA451809, AV699404, H10264, AV699118, AW938833, AV699156, AV662268, AV725100, AV749106, AV728821, AV662225, AV726109, AF109907, AC004846, AL353805, AL353805, AL353793, AL353793, and AL354917.
HAGFM58	103	604536	1 - 917	15 - 931	AI638778, AW590106, AW173135, H05533, Z40422, BE281400, BE256961, AI360514, AW401890, BG165396, AL138293, AW902368, AI276298, AU145083, AU158501, BG260120, AI053784, AA732523, BF880329, AA328232, AL109709, AL354861, AC004883, AC004222, AC006365, Z81310, AL035659, AL109623, AL133324, AL365475, AC019014, AC083870, AP000694, AJ289880, AC003077, AC002558, AC004166, AC034246, AC008831, AC008960, AC020898, AC005629, AC025435,

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HAGFT48	104	780112	1 - 1669	15 - 1683	BF570468, AV705560, AI692236, BG109465, AI590873, BE379711, AV727359, BG260919, AV726731, BG168165, BF346570, BG163576, AW069724, AI679159, AL519013, AL526190, BF965794, AA946740, BF528913, AV703283, AV702687, AL533461, BG110801, AI828175, AV705918, BG250071, BE873739, BF664718, AI879173, AI801238, BF694537, AI952807, AI424265, AV701931, BE271693, AI888295, AI719428, AL038639, AI690528, BG252025, AW081816, AI566482, AI679930, AW084703, BG114469, BF790995, BE907696, AW468515, AW264441, BG259591, BG107460, AI911915, BF126139, BG249013, BG171634, BE866495, AV662233, AI755241, BF034364, BF978685, AI042469, AI679420, AI920873, AA533286, AA878901, AA705930, BF033622, AI813557, BF245036, AA614121, AA555039, BE302112, BE349080, BE349238, AA576133, BE276084, BE732617, AA934742, AI888442, AI335341, BF570597, BE874628, AA860291, AI066675, AW732388, AW364528, AA878665, AA729828, AA599248, AI797201, BF947404, AI262300, AI094949, AA167638, BE566199, BF130582, N21304, BF214932, AW364525, BF836129, BE733819, BG169436, AV709791, W95814, AI929022, BG112486, W44546, BF031142, AA460519, AW068846, BF671114, AA167645, AI569046, AA680274, BE813329, AA706571, BF209625, BF576643, AI799177, BF669794, BF126331, BE738856, AA600232, AI348357, AI922161, BG251908, AI720703, AI150672, BE906371, W95807, AW769788, AA641539, AI086742, W73227, AI937266, BF130487, BF691960, AA740905, BF672048, AA838225, W73282, BF952838, BF340304, AW364527, AW021468, N21186, AI344411, BE223076, BE380150, BF575611, AW364492, AA055921, AA669190, BF725117, AA088463, C75449, AA113298, BF947407, AW952444, BG168232, AI870953, AW239482, AA180777, AI815653, BF671309, BE960981, AV728221, AW239226, BE301129, AA515964, AA180739, AW936442, AA158764, AA180786, BF667857, AI978855, BF030081, AA192566, BF576326, BF575200, BE895720, BG114654, BF382020, AW002797, AA772876, BF672014, BF575647, BF699457, BF674000,

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HAGFU31	105	751713	1 - 1256	15 - 1270	AV728425, AV725423, AI963720, AL046409, AI431303, AI305766, AF330238, AW193265, AI613280, AI345654, AI754658, AV760042, AV710066, AI270117, AV733830, BF241967, BF337291, AI350211, AV764307, AI284640, BF697673, AV734666, AV762535, AW965008, BF677892, AA490183, AI334443, AW963497, AV759172, BF679304, BF668217, AW276827, BG249643, AW974109, AW438643, AV764241, AI289067, AW975425, AV760777, BE350475, AW953071, AI341664, AV762098, AW083402, BE276880, AI619997, AI375710, AI688846, AW274349, AW419262, AW303196, AA610491, AW193432, AA623002, AI133164, AI061334, AW301350, AU151000, AV760774, AI814735, AV760937, AV762395, AA483223, AI344844, AV759382, AV763354, AI754955, BF854876, AL041690, AV718479, AA581903, AW502975, AI281881, BF939954, AI340453, AV761362, AI744995, AV764578, AW083364, AF074677, AL044940,

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HAGIB90	109	845963	1 - 962	15 - 976	BE891206, BF967846, AV703582, AA527457, BF940287, BF593918, AI741347, AI741312, BF435968, BF437119, BF432869, AI122793, BF439541, BE247761, AI935314, BG149715, AW043581, AU154078, AI650362, AA745613, AA865770, AI633528, AA418851, AI123807, AW136604, AI694688, AI638182, AA418967, AI436139, AA622393, AI400477, AI436792, BE466805, AA805549, AW341339, BE465548, AA417648,

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HAHSA76	111	848816	1 - 1574	15 - 1588	AA478498, BF435831, BF694558, BF576299, BF576281, AI184867, AA256526, AA256633, AA733154, Z19507, Z28554, BF435144, BF693719, AI702040, AA862946, and AP002012.
HAHSD51	112	847014	1 - 579	15 - 593	AV702505, BF667450, BF527488, BE900211, AV701178, AW960514, BG171086, BE562305, BE513572, BE513430, BF339961,

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HAIBR76	113	874298	1 - 2341	15 - 2355	BE907625, BE901428, BG114434, BF530873, BF339622, BE877888, BF115054, BG120408, BG253503, BE874850, AW590006, AA292298, AA843532, BF528648, BF033637, AI433843, BF436709, AA399200, AV729269, AA533999, AI185166, N38845, W95775, AI131156, AA164719, AA621188, AW438758, AI673176, AA487069, AA486623, AA036716, D52279, AA025036,

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HAIBT20	114	741086	1 - 1423	15 - 1437	AA461563, AL136128, AC068681, AC068681, AL136128, and AL136128.
HAIBV91	115	852223	1 - 2036	15 - 2050	AI005613, W96522, AA487079, H29914, AA634209, AA487219, H43771, AI791150, R87275, AI338426, BE880415, AI307201, AW572140, AU158612, AC020913, AC008551, Z95152, AC002059, AC000026, AL161937, AC004687, AL118520, AC068799, AC006430, AC003010, AC008403, AL096840, AC004491, AC008569, AL445263, AL031727, AL132772, AC018663, U95742, AC007216, AL121899, AL049569, AC002553, Z85996, AF168787, Z83844, AP001727, AC020908, AC005887, AL031428, AL035685, AC006057, Z85987, AC002070, AC007308, AC027319, AJ400877, AC005081, Z93241, AL136170, AC003982, AC005103, U95740, AC010271, AC004840, AL137073, AC002303, AC005004, AL031658, AL139353, AP000346, AC003104, AF047825, AC004865, AP001718, AC011465, AL121890, AL050318, AC011495, AC007938, AL031005, AC007688, AC010519, AC010198, AC008267, AL022323, U91318, AC004966, AC006530, AC020916, AC004382, AC002492, AC007540, AL078461, AC009086, AL035704, AC005803, AC005399, AC006312, AC005899, AF243527, AC002115, AC011489, AC003070, AL034549, AC011510, AC009079, AL031685, AC007277, AC011445, AL023807, AC011484, AP000952, AP001711, AC005088, AC002470, AC011742, AL024498, AC073316, Z84572, AC003684, Z95115, AC010412, AC008745, AC002288, AP000501, AC005914, AF053356, AC005588, AL138756, AC004859, AL138820, AL096814, AL049712, AC005513, AC005015, AL139396, AP000115, AC002400, AL121895, AC004876, AC020552, AC022392, AL138759, AL135927, AC008760, AC020917, AF207550, AC002544, AL109797, AC004867, AC004084, AL034429, AL031427, AC012384, AC005071, AC005908, AC007193, AP001752, AL050348,

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HAICE62	116	834523	1 - 1954	15 - 1968	AU132768, AI150674, AI201550, BE887731, BF797312, AU133896, BE886937, BF976248, BG116862, AI935161, AI764995, AI949627, BE894586, BF691352, BE502062, AU118541, AL135328, AI557507, BG259326, BE539774, BF978993, BF950716, AV751988, BF028357, AI421821, BE896516, AI660475, BE857412, AI928018, AI823470, AI823471, AA479500, BE834014, AW118824, BG109990, AI271334, BE785695, AU155062, BF961398, AW500446, BF941436, BE300247, BE858994, AW408026, AW292371, AI620359, AW052061, AI766262, AV715808, AA633532, AA554535, AW505212, AI673292, AI027570, AW273776, N70484, AW338139, AW501707, BF696094, BE088652, BF594650, AI760792, BE004296, AI186323, AI279748, AA975418, AA715033, AA970492, BF672314, AW605876, AA883296, AW504601, N35973, AI628400, AW337568, AA482028, AI051909, AA488888, AW191990, AI341856, AI804205, AW235238, AI926810, AV660012, AA987966, AI702537, AW664754, AA765790, BE082705, BF431459, AA923504, AW873707, AW499806, BF794528, AV748667, BG030045, AI524554, BF752173, BF752172, AI360518, AA236276, C00553, D61955, AW273652, AI471225, BF325664, AW505157, AI934271, BF082656, AI393039, AA868061, AA234286, BF215287, BF801368, AA868041, AV659779, BF669825, AI468843, BF752188, AA371204, BE175899, AL046157, BF571421, AL042309, AA417589, R74197, AI291217, AA479497, BG036107, AK001650,

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HAICL90	117	637491	1 - 740	15 - 754	W25214, AA515844, BF746832, BE071210, F31980, AW104861, BF849381, AI334078, AI371165, BE440005, AI890794, AI279417, AA507984, AI050070, F37294, AA613177, AC020934, AL096791, AC008569, AL096840, AC004703, AC010643, AC006285, AC005899, AC010271, AL024507, AC008474, AC005900, AL031733, AC016025, AL023096, AL109865, AC006345, AC009116, AC003080, AL391259, AC010412, AC004973, AL133391, AL035587, AC006121, AF228703, AL080243, AL355392, AC024561, AC005531, AL137222, AC004655, AC005391, AC004030, U47924, AL109743, AC008044, AC008816, AL022165, Z83844, AC004805, AC011533, AC005231, M89651, AL139390, AC007308, M26434, AF053356, AL121712, AL035659, AL049776, AC008649, AC020913, AC004971, AC004526, AC008745, AC005778, AC011444, AC005519, AC008687, AP001759, Z93015, AC004890, AC005225, AC009314, AC018720, AL035404, L44140, AC008403, AL035458, AF168787, AC010311, AL136228, AC004257, AJ295844, U95739, AL022476, AC005052, AC004751, AL049709, AC005520, AL135749, AC007383, AF111168, AL133545, AF190464, AL137139, AC010326, U91323, AC004132, AC009600, AL138832, AL022323, AC020906, AL109798, AC020904, AC006449, AC011449, U62317, Z95115, AC018758, AC024168, AL133448, AC008641, AC005696, AC004382, AC011460, AC006038, AP000113, AP000045, AC008551, U91321, AL161937, AC004841, AL353574, AL139150, AC027319, AL109984, AC003982, AL161731, Z97055, AC015971, AC011464, AC016395, AL159168, AC002425, AC006141, AC018644, AP001711, AP001727, AC011469, AC006329, AC010203, AC010677, AC005049, Z82206, AL162390, AL031283, AL022328, Z98884, AC020633, AL031584, AL035086, AC023510, AC005940, Z95116, AC009123, Z93017, AL138756, AC008821, AL121586, AL353777, AC018738, AC011895, AC078889, AL137059, AL139384, AP001753, AF038458, Z93784, AC018761, AC018761, AC018761, AC020934, and AC020934.
HAICV44	118	772534	1 - 1310	15 - 1324	BF971284, AW993277, BF672941, BF344424, AI393509, BG028030, BF593648, BE858897, AI088349, BG114260, BG027505, AI422244, AI144172, N45298, AA459205, BF576980, AA723286, BE856201, AW992964, N31126, AV719045, AA587890, BG118761, AI423984, AU155918, AW957211, AA744886, AW392712, AI089460, BF791291, BF577287, BF126452, AW022043, AI056639, N31208,

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HAIDP45	119	847015	1 - 1168	15 - 1182	AV733033, BE465419, BE169829, AW207311, AV708798, BG118622, and AK024966.
HAJAB88	120	780114	1 - 897	15 - 911	BE616037, BE615280, BG180162, BE901105, BE295816, BF967149, AW182849, BE279280, BE615969, AI092942, AI972761, BF116253, AW410648, AI744086, BE900838, AW629493, AW071747, AI417665, AI076797, W94081, AI479793, AI803421, BE868763, AI005195, AW410647, AA649155, AA456665, AI827403, AA745830, AI096465, W52625, AI362083, BE857232, AA968430, AI079812, AI276080, AI934890, AV723753, AI309279, AI802432, AA885011, AI309206, AI298589, AI302399, AI375750, AI192342, AI017501, AW072907, AW081737, AA665056, BE858911, AI350260, BF967889, AI274718, AA769751, AA961542, AW087546, AA525841, BF087407, AI299711, AI918166, AA988598, BE172780, AA833819, AI305216, AA769250, AW954068, AI742103, AA383287, T35757, BE465779, AI219146, AW772833, AA884500, AI668953, AI670703, BE542179, BF929615, Z19494, H84543, AI630943, BF932761, AA975981, Z28548, W94080, D25769, AI000855, AI802291, AI567582, BE966571, AW059828, BE972216,

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HAJAZ56	121	716168	1 - 1085	15 - 1099	BF940010, W52081, AI139014, AI200234, N62743, AI419067, AW450055, BE465080, BE670411, AI089767, AI419473, AW614700, N79684, AA452054, AA987258, AA451854, R69788, AI423130, AI573050, T05770, AA665033, AA247975, AA084615, and AC018689.
HAMFC67	122	588488	1 - 1365	15 - 1379	BF514452, AW024527, AA002160, W22415, AI521503, AI767872, H23992, AA251756, AA279913, AA251965, C14766, AA279401, AC021212, AC021212, AC017058, AC017058, and AC017058.
HAMFQ38	123	610051	1 - 567	15 - 581	BE217821, BG106602, BE326803, AU149173, AW299468, BE646271, AU153293,

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HAMGG01	124	783864	1 - 1270	15 - 1284	BE621816, BE260483, BE621007, BE905714, BG109060, BG118283, BG027676, AW954377, AA147882, BE966297, AW967897, AI872084, AI199782, N35833, AI348066, AA861422, W63691, AW149397, BE677693, BF514612, AA252999, AW136699, AW571649, BF317165, BE535369, AI494225, AI288477, AA554493, AA255718, AW006946, AA070411, BF818894, AI608679, AA262075, N24631, AW173772, BF434167, AA479734, AA905123, AI271886, AA554605, BE246242, AA811761, BF843065, AW516090, AA761176, AA665942, BF185247, AI262319, AA654467, AA719263, AA811549, AI468593, Z25240, C01689, AA657996, AA863476, AA253000, AI445271, F03345, AA374834, BE067213, AI655472, AI184423, R55333, BF315199, AA147489, AA861904, BF314854, AA687856, BF314965, AA678705, BE785716, H30097, Z28862, BE737365, AW974896, AF063544, AW997238, AA770575, BF965480, AI904024, BG116771, AI811603, AV724778, AI348777, AI335426, BF969354, BE789373, AV714010, AI557622, BG168455, AI621106, BG167294, AI491904, AA587590, AV655250, AV749238, BF970398, AI370322, AI440444, AW020397, BF792961, AV656903, AI336575, BE880209, BE514043, AA641644, AA937558, AA832303, AI636187, AV724541, AL513595, AW005029, N29277, AA805132, AW301344, BE906744, AA835947, AI627692, AI635528, BE393551, AV734888, AI373914, AA729782, BF526707, AI273856, AW021717, AW963250, AI688146, AW411235, AA574444, BE245461, AI915443, AA127565, AI539863, AL037602, AW411351, AV726505, AI702902, AL037582, AV706527, AA669121, BF342678, AI633383, AW366372, AW962455, AI244249, AW411265, AW410902, AK000476, S56212, AK025099, AB047248, AB025103, AF094480, AK025491, AF126372, AL050143, L10353,

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HANGB24	125	664478	1 - 417	15 - 431	AA600344, AI300465, AI376622, AI791654, AI376117, AI797291, AA534692, AI890125, AA877133, AV699843, AI769751, AV699461, AV700004, AV700602, AA056501, AI655898, AI791633, AW118107, AI961311, AV699972, D29031, T88845, AA348459, AI926428, BG028946, AI872896, T25160, AA056387, AI821488, AI821513, AC009105, AC009105, AC009105, AC026419, AC026419, and AC009163.
HANKC93	126	847018	1 - 862	15 - 876	BE315280, AA632674, AL109769, AC015550, and AF129756.
HAPAD35	127	840584	1 - 2143	15 - 2157	AV683406, AA425283, N72678, H53546, AV756663, AI754257, AW021399, AW020094, AA601712, BF942991, BE392753, AI167715, AI308529, C06046, AC069539, AL138752, AC016637, AC008040, AC007899, AL133453, AL035073, AC002528, AC007277, AL035413, AC009194, AL021877, AC006581, AL121582, AL139109, AL136090, AL121585, AC009244, AC020912, AC005901, AC018719, AC004025, AC016902, AC007436, AC008114, AL353748, AP000008, AL021393, AP000704, AC009276, AC004019, AP001727, Z98742, Z82901, AP001681, AL159977, AL138836, AL109840, AC055740, AL136300, AC025472, AC018637, AL157777, AL353580, AC002464, AC003081, AF181896, AF205588, AC010102, AC018492, AC005736, AL117348, U95742, AC008953, AC018641, AL117356, AL121949, AC008905, AL031120, AC007216, AC044791, AC006010, AC008865, AC004805, AC006146, AC005939,

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HAPBR13	128	609976	1 - 1571	15 - 1585	AW363149, AW296454, AW296725, AW373130, AW363152, BF354687, AI963720, AI561060, AA610491, AL119691, AL046409, BF668217, BF677892, AV761362, AI284640, AI431303, AF330238, AI334443, AW419262, AW274349, BG249643, AA587604, AV763971, AL138455, AW265393, AW088846, AV761745, AV735495, BF241967, AW303196, AW410400, AW500125, BF991286, AV759204, AI345681, BG059568, AI345675, AW301350, AA877817, AA720702, AW472872, BF337291, AV740801, AW265385, AU147800, AI754253, BG109996, AV757607, AV763540, BE672637, AW965008, AL138265, AW963497, AI754336, AA581903, AI679782, AV762098, BF827410, AA665330, AV764329, AA521323, AI350211, AI919265, BE006140, AW338086, AI571512, BE150580, AV710066, AI370074, AA178953, AW576503, AA521399, AW872676, AU147104, AA192740, AL041690, BG058664, AV762645, AV702857, AI254615, BF475381, AW193265, AW327868, AW574794, AA164251, AA126450, AL046457, BG059450, AV761489, BE139146, AI061334, AI368745, AW276827, AI471481, BE047069, AA680243, AV729809, AI270117, AV759362, AV760937, AV763354, BF763962, AV742057, AW406755, AL037683, AV762395, AW406447, H71429, AV703682, AW975425, AW028429, AW167372, AV763633, F36273, AA491814, AI613280, AI289067, AL042420, AW772780, AW193432, AI457397, AV735370, AW029038, BF793766, AV757425, AI745325, AA631507, BF683672, AV728425, AI761471, AI281881, AA551552, BF918590, AI149478, AW408717, AI537955, AA101689, AI708009, AI688846, AV758600, BE674881, AW339568, AA513141, AW162049, BE970240, BF311000, BF679809, AI929531, AI370094, AV762050, AV762139, AI865905, AW504669, AV762009, AL044940, AI298710, AW265194, AF063563, BE350475, AI370878, BG177715, AI732120, AI344844, AW276435, AU145314, BF592311, BF724767, AI341664, AI345654, AV762064, AL048925, AI635818, AW974109, AW021583, BF919090, AW996768, AI619997, AW406162, AV762397, BF854876, AW960468, AW265170, BE906897,

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HAPBU09	129	762803	1 - 778	15 - 792	BF569292, AL528819, BE389118, BE392549, BE389075, BF982511, AI040752, AI049529, AI769273, AI094349, AI522297, AA622303, BF983345, AA186348, AI365633, BG252282, M78841, AI983958, BE244506, BE858338, AA678243, AI041236, BG028607, AI432639, AI373623, AI419411, AI798231, H58227, R54769, AI554785, AU149366, H05033, BF381315, F09708, BE246500, H09751, R48493, R87933, R56888, AI123044, AA765782, R47780, R45570, R37740, AA603115, R41799, BE812642, BE874245, AA911072, AA350939, AA993529, AI382054, AA973342, AL042410, T10298, AW473464, AI265877, BE465620, BF718605, Z39399, AI559221, H09714, AI672082, AW518803, AI203422, AI868385, T23705, BF568262, AA910554, R45802, BE869415, H61052, AI598184, AA352295, BE543006, BF851333, BE311806, BE311445, BF753602, AI561052, AV750608, AW195253, AI816980, AI688848, AI963564, BG105381, AI687166, AI471429, AA604125, AA838230, AI867076, BF339011, AI672847, AI912333, AI282865, BG109810, BG001293, AA156293, BG035988, AI560569, AI433611, AW152144, AI494201, AI419650, AW263804, AI096881, AI926593, AW151974, AI678324, AI702527, AI653578, AI341669, AV712254, AI866169, AV723020, AV722414, AW169598, AI568886, AW303089, AI624120, AI453339, AI802515, AA866006, AI612815, AA497014, AA831789, AI537516, AA767181, AV711541, AI539028, AI539661, AA226168, BF750928, AI416961, AI801088, AI619587, AI571980, AW148484, AW079357, AI241678, AL121014, AI695129, AI590781, AI241800, AI863397, AA477375, AW022093, AW022494, BG105800, AW020288, BF680133, AA056265, AW238753, BG105110, BF886794, AJ004832,

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HAPBU86	130	789544	1 - 1337	15 - 1351	W63595, AI091586, AW139956, BF589466, AA706707, AW953704, AI920881, AW071496, AU151958, AA782399, AA030021, AI262985, AW085959, W56173, AA367126, AW085036, T77303, F13277, F10875, R20876, AI031732, AI027420, R42056, R38187, AK001537, AC007073, AF052098, AC007073, AC007073, and AC007073.
HAPBU86	131	864890	1 - 1357	15 - 1371	W63595, AI091586, AW139956, BF589466, AA706707, AW953704, AW071496, AA030021, AI920881, AA782399, AU151958, AI262985, AW085959, W56173, AA367126, AW085036, F13277, T77303, F10875, R20876, AI031732, AI027420, R42056, R38187, AK001537, AC007073, AF052098, AC007073, AC007073, and AC007073.
HAPNJ33	132	835554	1 - 3383	15 - 3397	AL529751, AL537597, AL516532, AU125289, AU141078, AU125863, AU119203, AU133452, AU142209, AU133510, BE383839, AL529750, BE275012, AU119839, AU133332, AU126010, BG024249, AU121510, AL516531, AU125229, AU140391, AU132748, BG170929, BF032210, BG170657, BG168008, BE891218, BF980708, BE819462, BG250968, BG169035, AU138268, AU133026, BF314487, BF792816, BE883225, BE728605, BE122660, BF346119, BE747887, BG105391, BF032574, AU133475, AU130438, BE262462,

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HAPNL62	133	790340	1 - 2798	15 - 2812	BE673536, AI139897, BG170829, AW957833, BF002086, AV759722, BF672195, BE551846, BE389388, AI401166, BF590805, AV759790, BE349134, AW816215, AA313661, AW965858, BE463882, AW025093, AW997045, AA279665, BF130382, AW006892, BE966019, BF432467, AI672221, BF114826, BF126278, BE613995, AI342548, AW573226, AI218610, AI523160, AI633767, BF594259, BF132165, AW300128, AW970231, AI917095, AI422060, BF593300, BF694624, AI638456, AI148656, AI913714, AW022547, AI280117, AI538704, AA192996, AI672181, AW339696, AW976477, AA193047, AW105141, AW069623, AW515507, AI631400, AI391561, AA018552, AW629309, AA598675, AA884843, AA676366, AA721090, AW009094, AA704417, BF380131, AA642189, T92717, AW080929, AI417778, AI609457, BF437799, BF368021, BG231627, AI191147, AW169709, BF839476, N77136, AA721349, R22380, BF431128, AI826801, T92796, AA146872, AI220831, AA678826, BF217273, BE252893, AA358132, AA146873, AW103221, AW000901, AA037814, R57905, BG059367, BG059137, AI699878, AA424312, BE218059, AA665654, BF575887, BF752397, AA831994, AI202922, AA037815, AA744672, AI695756, BE708481, AI424586, BE183189, AA358133, AA652971, AW970230, AW754324, AI225125, AA693478, AA730437, AW579649, AI566154, AI536019, AW206074, T25954, AA642188, BF857489, BF435937, BE857491, Z44903, AK000734, AK027055, and D38417.
HAPNO50	134	834384	1 - 1131	15 - 1145	AL518419, AL518118, BE736445, BE613342, BG026387, BF035535, BE315374, AW958599, AI081543, AL518119, BE392524, AL518420, AW024140, AA742572, AL525779, AA593332, AL521715, AW327486, W76539, AI239527, AL527756, BF795907, AI362956, BG056963, AW886596, AW961870, BE266544, AA977531, BE465629, AA865071, AL527757, BF955442, AA988767, BF829843, AI240922, W56688,

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HAPNY10	135	702037	1 - 1495	15 - 1509	AU118496, AU142760, BE748883, BG179512, BG164420, BE545820, AU134626, BG036116, BF038780, BF977295, BE878267, BE894212, BF696091, BF752488, AW967106, BE005640, BF965685, AV717118, AW995054, BE748294, AW995063, AW995040, AI872039, AW995055, AW995066, AW995049, BF789942, AA428870, AW995046, AV716699, AI754200, AW995037, AW995038, AU145042, AU151060, AW995051, AI609742, AI951238, AI753336, AA573149, AI979258, AW995061, AI421741, AW995041, AW150943, AI635265, BF245148, AI885452, N51395, AW994876, AI421503, AI690515, AU153623, AI356875, AI929816, N22690, AI653622, AI361388, AA167620, AW129548, AI288253, AI523512, AI278897, AI653615, AW995057, AU151622, AW026273, BE858081, BF693683, AI346768, AW055362, AI422405, AI624929, AA284092, BG111735, AW994885, BE247543, AA648411, AA916321, AI337889, AA938166, BE246607, BG029176, AW338309, BE564504, AI753213, AW664261, BE042823, AA180741, AA937772, AA843360, BF029597, BE247347, AI346951, AI749703, BE813310, AA180911, AW995069, BF743325, AI540290, BF382452, AA837104, AA098975, AW027738, BG036033, T05657, AU156041, AU156561, BE551250, BE244383, N67264, AW627736, H01297, AA975101, AA588569, T65565, AA825166, AA428214, BF215654, AA872382, D57428, BE896006, AA626493, T17244, AI352346, H89608, AA256109, BF677052, BE243958, N41743, AA872866, AI985254, BE896318, BF575278, AA774035, R56254, AW468983, AI423092, AI452841, AA467977, BE856775, AW517913, F09456, BG166718, T36131, W31622, D81537, Z28603, AV705481, H16985, H89372, T30634, AA664236, R82283, AA429824, AA219532, AA284229, BF792407, D57692, D52630, BF326362, R82282, Z19255, AI567175, BE246916, W52900, BE892253, BE787687, BF697157, D55793, BF690202, D55939, R59912,

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HAPPW83	136	847020	1 - 1351	15 - 1365	AA742433, AW576370, AW674269, AW080552, N70013, AI440157, AA885767, N35921, AI610511, AI433058, AW243690, AW020082, AW473707, AI824459, N70096, AL079912, AA555240, AV736782, AA557945, AA015948, AU147226, AV758849, AI174703, AI828721, AI915081, AW875184, AA720582, AV683406, AW813106, AI860423, AU148246, AI791659, AI281622, AW855527, AI732720, BF949151, AI572680, AW131394, AW272815, AW403177, BF882222, AW513105, AA937402, AA831714, AI370470, AI242236, AI434103, AW511778, AW963295, AI889236, BE152006, AI734119, AA807704, AV764119, AA653291, AW614862, AI590404, BF525663, AA636077, AA584360, AI754926, AI744963, AA055647, AI123488, AI251024, AL042667, AL042670, AW020150, AL044701, AW518140, AI031759, AA703818, AW880986, BE045167, AI567676, AW631267, AI318548, BF814446, AA086042, AI857834, AA313025, BE392753, AV712092, AW902110, AU159185, AA601712, AI114494, AA935827, AU120423, AW268793, AA507623, AW072963, BF901147, AA640104, AI254267, AA425283, BF970107, AI571094, AV740548, AI733523, F35684, AA748071, N55296, AI521525, AL039436, AI344906, AW957502, AA719564, W60000, BF882223, AA197089, BG034698, AW085626, AI969090, BG059924, W45215, AI307563, AU159329, BF575954, AW576299, AW979200, AW149241, AW593631, AI000381, AI280535, AL049366, AJ007590, AC007021, AC007597, AL096701, AL161936, AL035089, AC007421, AL033529, AL136365, AC004605, AC013429, AL078581, AC008265, AJ009616, AP001711, AL021918, AC006483, AC002546, AL137129,

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HAPQJ73	137	580802	1 - 1843	15 - 1857	AW294869, BG236257, AW778903, AW129774, BG036371, AI884330, AI696923, AI633798, AV688970, AA165541, AW779041, AW173727, AI333148, AW515987, AI479216, AW182534, AA743632, AI498674, BE465474, AW117302, AI346562, AW591097, AW118511, AW614948, AI557212, AA743859, AI358240, AI267413, AI261985, AA017059, AA743634, AA167402, N66962, BG110808, AA862980, AI493590, AI273999, AA165508, AV732273, AW768832, BF028059, AA214448, H11195, AA021464, AA404519, AA953430, AW959595, AI689073, BF030889, AI827162, H38360, BE169597, R80519, R80410, AW352115, AW352124, AW352122, H40632, AV689744, R73775, AW079702, D59570, AW388483, AW838177, AW388597, D80362, AW388478, AV686050, AW352116, H38123, AV689751, AW752148, AA278329, AW388317, D59748, AA513300, R76419, T93220, R78798, H38124, R73683, AI619809, BF855318, BF349351, AW375680, AA361084, AW352128, BF374782, R85948, BF349350, R62539, T93119, D59651, AW795970, AA300011, AI245308, AI784324, BF970523, D59571, AA621589, AV715322, AW662250, D59712, BF241491, AA279000, R25408, R28435, R62538, AA017210, AA021463, D59711, BG007851, AW898617, AA961634, AW268874, AA585200, and AL354720.
HAPQK26	138	637494	1 - 1796	15 - 1810	
HAPQU71	139	752580	1 - 1865	15 - 1879	BE742577, BE315537, BE898768, BE745817, BF035770, BE271940, BF037055, BF037980, BE158907, BE898287, BE612349, AW992960, BE709528, BE744647, AA482434, BE019873, BF087379, BF326584, BE743131, BE747485, BE740044, BE709885, BF352583, AW102841, BE047819, BE709842, BE740070, AA459527, BF848859, AA781487, BF847782, BF876013, AA477819, BF087337, AW580272, AA358887, BF847776, AA434062, AI924355, AW470096, AI587292, BF874643, AW117428, AW580274, BF868508, AI654014, BF087377, BF869266, BF513758, AI811475, BE708082, BF357751, BE741425, BE813613, BE169719, BF087843, BF833377, BF515872, BF738579, AI189904, AI859730, AI673741, AI620114, AI866635, BF851802, AI301537, BE208180, AA482607, BE899205, AI701707, AA459296,

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HAPQU71	140	864781	1 - 1865	15 - 1879	BE742577, BE315537, BE898768, BE745817, BF035770, BE271940, BF037055, BF037980, BE158907, BE898287, BE612349, AW992960, BE709528, BE744647, AA482434, BE019873, BF087379, BF326584, BE743131, BE747485, BE740044, BE709885, BF352583, AW102841, BE047819, BE709842, BE740070, AA459527, BF848859, AA781487, BF847782, BF876013, AA477819, BF087337, AW580272, AA358887, BF847776, AA434062, AI924355, AW470096, AI587292, BF874643, AW117428, BF868508, AW580274, AI654014, BF087377, BF869266, AI811475, BF513758, BE708082, BF357751, BE741425, BE813613, BE169719, BF087843, BF833377, BF738579, AI189904, BF515872, AI859730, AI673741, AI620114, AI866635, BF851802, AI301537, BE208180, AA482607, BE899205, AI701707, AA459296, BE206457, AA314951, AW190041, BE271966, AI858988, BE171333, BE271575, AI093119, AA634679, AI276354, BF351727, AA525222, BE740115, AA291423, AI686752, AA292224, AA482580, AA477820, AI687687, AW992971, BE707992, AI537880, AI624088, AA493655, AF146796, AC004909, AF111856, AC006393, AC006393, and AC006393.
HAPQW18	141	610052	1 - 542	15 - 556	BE672042, AI912701, AI890552, AI745193, AI973098, AI769084, AI630869, AI767554, AA968619, AL519427, AL524219, AW206605, AI380311, AI624824, AW135565, AI970430, BE464124, AA031259, AI393659, AW795851, T81908, BE932418, AI266275, AI218204, AI681165, AA081797, AA031333, AI350313, AI560521, BE710531, BF930742, AW869405, AW795881, AC022930, AC022930, AC022930, AF238376, AF238376, and AF238376.
HAPQX44	142	779053	1 - 1618	15 - 1632	AV715045, AI694661, AI871631, AA622514, AI143235, AA071502, AV683115, AI498301, AW028350, AA082324, BF927531, AV689586, AA700825, AW994073, AI279901, AW779350, BG055383, AI911036, AA759227, BE045131, W89105, BE181513, W89051, T02938, AW194764, AA477253, AA679322, AW874697, AI191945, AI191956, AI150264, AC004832, AC006974, AC003012, AC018646, AL359272, AL136137, AC004847, U95743, AL034376, AP000080, AL049743, AC003662, AL353748, AL035420, AL109953, AC019187, AL136374, AL391867,

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HAPRK55	143	735887	1 - 1366	15 - 1380	AA719016, BF335359, BF767768, AA515728, BF946053, W96522, AI024054, AW970987, AA828592, AI821382, F19606, AI635819, AA302971, BE243506, AV649853, AI061147, AI754170, H63066, AL037856, BE880415, AA678491, T11828, AW835708, AW069412, AV649707, AA632765, AI570943, AA845333, BF817546, R87275, BE062159, H43771, BF925233, AI820796, AI826761, AL047247, BF733884, R87883, AC004383, AC020552, AC008403, AC004144, AL050318, AL109804, AC005736, AC002365, U75931, AL031846, AC011811, AC004913, AC004167, AC009333, AP001670, AL121899, AC011504, AP001331, AC004832, Z98884, AC005921, AC000353, AL031118, AL117348, AC008569, Z93023, AC027319, AL162272, AL133445, AC005200, AC009032, AL031658, AC005251, AP001718, AC004089, AL035071, AL049759, AC006023, AL136305, AL031427, AL109976, AP001759, AC006112, AC005015, AL109825, AL391122, AC005332, AC005522, AC005098, AL033525, AC009087, AL021155, AL035681, AC011497, AC004975, AL353653, AL035249, AC005664, AF038458, AC005225, AL355515, AC008812, AC002126, AC011293, U95743, AC005081, AC006449, AL034420,

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HAPSH37	144	847021	1 - 1366	15 - 1380	AW384937, BE160781, BF529738, AW580925, AI144298, AI034355, BE565482, AW296065, BE677893, AI672266, AI796992, AW083221, AA419101, AI922745, BE702563, BF679286, AA398731, AI671455, BF109438, AI797317, AI311916, BE707140, AA504182, AA393393, R83777, BE811312, BF763831, AA216462, H61773, AI810853, BF763826, AA350248, H07925, AI002531, R83343, BF879713, BF477911, BF433628, AI360664, BF667567, R28101, BE932879, AW891590, AA670228, AA410650, BF978002, M78650, BF475926, H61774, AI290315, AI041588, H01090, AW889623, R45281, F10460, AW891816, AI868885, BF222189, AW390662, BF804385, AW821148, AU154050, AW393511, AW889632, BF897990, T54901, AA601376,

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HAQBG57	145	837545	1 - 1034	15 - 1048	BE562515, AI742455, AI961996, AA507216, AI190639, AA731364, AI673081, AA593594, AI003558, BF528073, BF885284, AI435334, AW438908, AI381200, R69327, AI204170, AI739035, AI401755, AI591140, AA432147, AA251459, AW967618, AA446655, AI682154, AW613695, AI500259, AA398391, R79970, AI149747, H97579, AI263813, AA401707, BE350370, R69328, AA670245, AA643922, AA852081, BF345349, AA889222, BE782687, BF034010, and BF038771.
HAQBY85	146	832384	1 - 1868	15 - 1882	BG119049, BE250992, BE254599, AW382173, BF514779, AA608749, AW008890, AA253382, BE939553, AI800150, AA837024, W89023, AA662691, AW749390, AW748596, W89024, AA699404, AA935978, AA036826, AA158032, AA775921, AI278341, AI246291, AA688389, AI582781, T64857, AA748991, AA888418, H88471, Z19284, Z43974, AI769233, C21449, AV727411, F06945, AW818492, AW150474, AA677255, AA543055, BF757728, BE815811, BE542234, BF816107, BE091109, BF676036, BE836661, AI335654, AI193902, AB018326, and AC005007.
HAQBZ15	147	801966	1 - 2240	15 - 2254	BE260056, BG035487, BF344378, BF526374, BF984346, BE260510, BG031222, BE783064, AL042576, AW961029, AI978623, BE314256, BE395235, AW410058, AW964329, BG253002, BG003227, AU134349, AW995362, BF087734, AI818399, BF087860, AW967225, BF313051, BF087837, BF758009, AA921973, AA430575, BE205802, AI038345, AA699733, BE350196, AI033886, BE712425, N42316, BF087848, AI365948, AI921951, BG031861, AA113157, AW615817, AA219262, AI219706, N29539, AA478187, AW297541, R11659, BG015611, T57479, BE712676, BE939228, AW751613, AI051886, AA961539, AI805015, BF996630, H98088, AA478030, AA878785, R12265, H53625,

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HAQCE18	148	604906	1 - 270	15 - 284	AI376044, AI537459, and AK000776.
HAQCF94	149	795993	1 - 1601	15 - 1615	AA659388, AW853155, AL042300, AW975062, BE834590, AI674461, AI674517, AW449192, AW975067, R23565, H52947, T18988, AV704610, AV703880, AV704679, AV703597, AA659202, AI435510, BE842743, AA373079, AI272122, AA373078, H52948, BF370478, BG057757, AR063942, and AC021078.
HARAE26	150	560598	1 - 1231	15 - 1245	AA317415, AW500684, AW069227, AL038606, AW303196, AA284247, AA719292, AW301350, BF725844, BG029528, AI755214, AV760019, AI207465, AI923052, AI754105, AI754567, AW237905, AA760655, AI380617, AI254779, AA713946, AA630854, AI279417, AI311647, AV756491, AI332615, AL120343, AW576251, AI625604, AW438539, AI620992, T74524, AW327649, AI440117, AA833875, AA833896, BE062476, AI061313, AW856329, AA679634, AW468048, BF868994, AI275982, AA513851, AA492584, AW753399, AV710809, AI284126, BE252421, AA666332, AW327868, AI278440, AI277373, AV682003,

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HARAT69	151	769389	1 - 1947	15 - 1961	AL524234, AA100250, BE882416, AL524233, BG118639, AW964377, AI741401, AW959906, AI393036, AI831896, BF818037, AW340362, AA770366, AI203420, BF962786, BE219229, H29047, AA704470, AI453361, T61914, BF739883, BE018560, H29149, AW206127, AA318182, T79997, T02839, Z40862, AA953034, T50337, AV693344, R37580, F07775, AA326870, AW965067, BF591216, AI225197, AV741460, AA812883, AI291908, AW271074, AW138379, BE302153, BE138398, BF718268, AI335367, AI305794, AI376490, BE043669, and AF070590.
HARAZ81	152	832380	1 - 922	15 - 936	AW964407, BF308448, AA133351, AI955259, BE796212, BE791557, BG115810, BF037117, BE257947, AI201081, AI479643, AI371725, AI338226, AI272799, BE786863, AI523836, BE512992, AI832556, AI360813, BE744787, BF971945, BE795339, AI911189, AI332998, AV733716, AW105647, AA449114, AA417906, AI160821, AA812681, AV756337, BF667373, AA196804, AI687745, AA074869, AA677398, AI949595, AI028708, AA806308, BF685157, AA779378, AA652508, BF037939, AA719870, AV701912, BE730232, AI804084, AA583945, AA713507, AI076158, BF684668, BF686755, AA758900, AA628636, BF207166, AI738876, AI084956, AA513306, AI081646, BE793024, AA593880, AA478598, AI192864, AI189240, AA419554, AI401016, BF032897, AI871846, BF733159, AA620875, W42538, AI094068, BF694324, AI242445, AI188600, BF975403, AI274502, BE385728, AI187079, AA962082, AI284416, AA657626, BF680048, AA463687, BF309104, AI243176, AA196803, AV744973, AI224529, F19538, AV709297, AA308585, BE559524, AA468047, BF244980, AA234166, AA234913, AI804825, AA987467, AA318396, AA187442, AI127473, AA234914, AA233918, AI147167, AW403920, AA721050, BE281458, AI476030, AA482379, BE717214, AW873836, AW795107, BE163110, AA463761, AA471119, AA091369, AW844269, W31092, AA468083, AW844282, AI253673, BE698022, AA969703, BE698050, AI220722, AA312835, AW300509, AA229993, AA469001, AJ003540, AA468096, BF374556, AA357299, AA468927, AA720885, AI186421, N44134, AA479333, AA872664, AA449548, AV742900, AA385197, BF027226, AA906776, AW794203, AA833536, BE833240, AA887208, AA318716, AA187616, AA383017, AI371742, BF819540,

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HASAU26	153	845848	1 - 3839	15 - 3853	AU124401, BE797853, AL528340, BF690547, AU118387, AU132836, BE875392, AU140227, BF664432, BE615674, BF568276, BE792474, BE274361, BG256038, AU124550, BF973668, BE906440, BE729190, BF568338, BG122336, BF038990, BE786205, BG117655, BG181114, BG032615, BE888221, BE736755, BF313050, AU132782, BF206196, BE798469, BG250285, BF664365, AU123878, BF315873, BF569127, BE894358, BE784119, BG171850, BE295819, AA780369, BF239249, BF312233, AW007107, AW247178, AA580485, AW250777, AU154287, AU129989, AU144969, BF689646, BE274273, BF568513, BE168071, AU152044, BE313362, BF843422, BF727210, AW815024, AI889446, BG166955, BF925267, AU148379, AI884601, AU158373, BG166740, AA522499, AW373173, AI015546, AI147855, AI186906, AU154243, BE312550, BE148833, AI373440, AI095689, AA968892, AI095487, BE696538, AI160325, AW248208, AW264535, BE046408, BE328173, AI510750, BE646377, AI950938, BF309260, AI076886, BE676303, BF926526, AW960861, AL528339, AA682646, AA857237, AA552042, BF980572, W84895, AA292010, AI347872, AI922212, BF116210, AA427845, AW601975, BE707476, AI955240, AA563839, BE312229, AI078440, BF926531, BF314730, BF852678, BG014610, AA810917, AA829942, W59997, AA705524, AI907974, BE207828, BF926537, AW080506, W84389, AI306459, AI001734, AW373196, AI139220, AI498719, BF090856, BF868677, AI199919, AI222477, AA658432, W52743, AA651737, H38325, AA029082, H24155, W84700, BE262505, AI400698, AI147570, AW167244, AA179393, BF092458, AA037365, AI826643, AA483287, W79003, W56553, AA527305, BE696591, AA494526, AV706677, BF568826, AA322219, BE244368, AV705159, AW005232, AA628070, F25100, BF436609, H80778, BG035754, AI143990, BF849923, BE696636, AI401029, AW073254, F36694, R46537, AI272259, AW971294, AI864420, AA853001, AA853002, R83484, Z25334, AI445556, BF931196, AI754896, AI421725, BE243609, AA397929, AA182708, Z45924, AW387124, BE825150, F21719, BF978287, AA826586, AA302034, BG007998, AW603504, AW510381, AW193587, AA426012, BF091168, AA704475, AI205926, W56661, AI886447, AA029081, BE696615, BE259593, R50381, BE464901, AI338720, AA393733, BF569304, R46538, AW750193, AA355740, AI079621, AA371718, W17012, F30012, BF923138,

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HASAX57	154	654833	1 - 1343	15 - 1357	BE739647, BF207870, AW779917, AI458231, BF197575, AI342645, AI707805, AI253782, AA256395, AA256396, AI559913, AW572058, BE739185, AW029032, and C02450.
HASAY07	155	834511	1 - 796	15 - 810	AW029550, AI421071, AA749013, AI089760, AI216061, AI216062, AI276275, AI394514, AI224860, AW589309, AW589316, BF196821, BF939740, AI522243, AI769458, BE464969, AI151215, AI865920, BF438487, BF063523, BE857269, AW291447, AI271823, AI580333, AI373605, AI246373, AI690129, AI767834, AI971196, AI796985, C18262, BE220875, AV718681, AV742001, AV724520, AV720464, AV718692, AV718844, AV720731, BG149812, AV742667, AV722801, AV719783, AV701017, AW361828, AW361900, AV718489, AV743601, AV701248, AV700229, D80219, D80253, D80227, AV744934, AV745080, AV742720, AV701431, AV719000, AW973447, D59275, AV744771, D80043, AV701043, D80240, AV741012, AV743008, AV701443, D80210, D59787, AV701428, D51423, AV720220, AV723927, AV699447, AV701154, D80134, AV700889, AV721784, D59619, AV699927, AV744773, AV744768, AV745724, AV745831, AV701125, D80391, AV745723, AV701261, AV701012, D80193, AV701166, AV701118, AV740535, AV720607, AV701163, AV737584, AV743654, AV720812, AV720034, D80196, AV741888, AV701332, D80949, C14227, AV745369, D59927, AV746385, D51250, AV745488, AV718707, D80366, AV746335, D80168, AV700622, AV720203, AV744770, AV745366, AV699479, AV745392, AV701055, AV701149, T11051, AV746162, D50995, D81026, AV701145, AV723097, AV701004, AV719568, C14014, AV719822, C75259, D80045, AV738934, AV699550, AV701121, AV701344, AV701335, AV701231, AV701422, AV720150, AV699669, AI557751, AV699746, AV701021, AV719913, AV720211, D59889, AV701013, AV745847, AV718858, AV699682, AV701357, AV745490, C15076, AV745621, AV701330, T23947, D80022, AV719324, AV701151, AV745920, AV701227, AV745853, AV742996, AW063533, D80038, AV700895, D59467, AV745583, D80195,

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HATAE01	156	654834	1 - 797	15 - 811	AI733856, AI923052, AW500029, AL135377, BG223550, AW969941, AI754567, AI591118, AI380617, AA527209, BE872393, AA644090, AW576251, AA524616, AI061313, AW872676, BF725844, AA169245, AI251576, BF681619, AW630298, AW576485, AW963444, AW851405, AI274011, AI887235, AI612142, BG236735, AA857486, AA704393, AW500684, AI687343, AI583466, AW979191, AI306232, AL038842, AI620354, AW237905, AI754037, AI755057, AV762430, AI114557, AW274191, AI583252, AW966611, BE301584, AI755214, AC008372, AL354864, AL391122, AC006483, AC006241, AC005778, AC008969, AC005231, AC010271, AL450224, AF168787, AC004867, AC004686, AC004019, AL023553, AC004253, AL137039, AC008745, AC004166, AP000555, AC008044, AF107885, AC008753, AC005971, AC005081, AC005098, AC005212, AL096791, AL117377, AC005522, AC005777, AP001725, AC004840, AF190464, AL353807, AL049776, AC005899, AJ003147, AC002073, AC004887, AC006084, AL122020, Z85987, AC020552, AC010311, AC004847, AC004820, AL353701, AL391839, AC007404, AL138960, AC005747, AC007201, Z73359, AC005514, AC005696, AC002350, AC006312, AC005180, AC008626, AC006388, AC004675, AC005412, AL122001, AC018720, AC008403, AC005786, Z93241, AC018719, AC009516, AC002472, AC005288, AC007731, AL158828, AC007664, AL035587, AC005500, AC002072, AC005920, AC008738,

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HATAG52	157	598714	1 - 996	15 - 1010	AI129949, AA872685, D62470, H05049, D60235, D60505, D60722, D61233, H23868, AW517611, BF089730, BF089737, BF089718, H23914, BF089732, BF089733, BF089715, D60930, BF089739, BF089728, BF089723, D61106, Z40823, C15241, D81133, AA491680, D79646, BF089719, H23869, BF089720, BF089734, BF089729, BF089717, AL514691, AA631120, AL513817, AL514409, AL514627, AL514015, BG170937, BE540578, AA665587, AL513907, BE966547, AL514155, AL514493, AL513977, AL513901, AW118508, BE965014, AL515195, AL514919, AL514721, AL514543, AI829990, AI432570, BG026746, AI686749, AI624529, AL514791, AL513865, BE965169, AI499279, AI537643, BF764538, AL514623, AW162194, AL513999, AL514473, BE964994, AL513597, BE779152, AA575874, BG164371, AL514087, BF822127, AL513693, AI537837, BE892572, BE974031, BE966577, AL513553, BF753053, AI761468, AI583032, AL513707, BF970093, BE963879, AI567582, BG111094,

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HATAL05	158	847023	1 - 1185	15 - 1199	AW893936, BF665037, AA780214, AI673021, AA319025, BF908401, AA431683, R68939, N94844, and AJ278508.
HATBA90	159	588403	1 - 420	15 - 434	AA319454, AP001785, AP001785, AP000859, AP000859, AC018780, and AC018780.
HATBM71	160	598715	1 - 702	15 - 716	AW861413, AC023395, AC013558, and AC023395.
HATCF80	161	780460	1 - 2489	15 - 2503	BF339811, BG122135, BE875617, AA478932, BF103548, BE876216, BF215983, AI524796, AW958127, AI140755, AW955639, BF332022, BF979162, BF514220, BF058310, AW298197, N72878, BE089984, AI023398, AI086337, AI287670, AA699963, AI129285, AI874257, AI910979, AA732824, AA777550, AA703405, AW020170, AI767807, BF215446, AI436328, AI080218, AA004862, AI742101, AA634298, BE934102, AV703219, N62654, BE881468, N66921, AW518873, AW256295, BE502078, AF202960, R88933, AA738319, BF028197, AW651623, AA513848, AI050008,

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HATCI67	162	847024	1 - 1094	15 - 1108	BG034098, BE877241, BF058520, BE856379, BE881016, BG026242, AA404709, AI096907, AI142557, AW966826, BF195157, AI074500, AW139039, AI630178, AI921159, AV655985, BE891605, AI955699, AI094295, AI801463, AA196603, AI828467, AI801258, AA595775, AA622790, AA961674, AA196602, AW952959, BF437521, AA927178, AA974990, AA926840, BE440056, AI302567, AI133070, AA292698, BF477828, AW964572, AI418531, AW130119, AA037836, BE858455, AI249082, D19601, AA452549, AI202938, AW779414, BF380123, AI423897, AI079717, AW088480, T79142, AA970426, AA037835, BF447346, AV712531, AW274036, AA317989, AW838379, AW473243, R09357, N64781, AW104842, AI673440, T79223, R80809, AA621613, AI630428, AI567188, AI956021, AA907717, BE049469, AI349466, AI352275, BF380134, AV738679, AA047624, AA284376, BF377286, AA936174, AA284125, T39989, AA404310, N76193, AW733115, BF745231, AI361349, BF760352, BG035872, AA344226, AA286984, AW838245, AA430956, BF850753, AW779293, AA321009, AA829495, H96318, R81012, AF118070, AL157431, AC013606, AC013606, AC015685, AC015685, and AC015685.
HATCJ27	163	847025	1 - 916	15 - 930	AI654115, AW102618, AI038527, AW195055, AW891503, T18999, BE764818, BF086642, AA134696, AW891479, AA076909, AA115326, AL049437, AC004668, AC018645, AC006379,

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HATCS79	164	848564	1 - 780	15 - 794	AW976299, AU158177, AI400634, AA648537, AW148642, AI686937, H08084, H05599, BE972835, AA778728, R37326, H08212, BF977151, AA749072, BF037560, AK023708, and AC074091.
HATCX03	165	899395	1 - 1131	15 - 1145	BE671026, AA400920, AI149738, AI681025, AW297392, AW451362, AA782555, AA393952, AI187402, H16244, R42862, H10214, R54075, BE671675, Z39477, AW129096, H10268, AA012946, AA018460, Z43406, R37860, N54009, AL514793, BG108324, BF970731, BG032214, AL514129, AW999049, AV756393, AI349645, AI500077, BE048319, BG180996, BF882343, BG036846, AW169653, AV757598, BG058398, BG030364, AW071349, BF812933, AI521012, AI349772, BG109270, AL036146, AI340582, AW301409, AW087445, AL515375, BF883916, BE966388, BF971016, BE047952, AI758437, AL036361, BG260037, AA225339, AV760102, AW827249, BF527014, BG164371, BG058208, AL135661, AI702406, AW071417, AI249257, AI590128, BE904295, AI436456, AI702433, BG257535, AI564719, BG110517, BG031815, AW103371, AW238730, AI348897, AA572758, AV757639, AW827203, BG105099, BG112879, AW274192, BF816811, BE964633, AI340519, BG110684, BE048071, AI538716, BG120816, AV686346, BG168549, BG151247, AI433157, BG179993, BE048135, BE964614, BF037097, AI274541, AI620284, AI281779, AI857296, AI498579, AL040243, AW162071, AI282281, AW075351, BE887488, AL515047, AV682479, AI312428, BF817926, AL079963, AW148320, AW104724, AI682841, BF724691, AW129106, BG110283, AI349004, AV756150, BE891942, BE963035, AL043326, BF343172, AI567351, AW074993, AI800433, AI349614, AI868831, BG032208, BE781369, AL044207, BE172767, BG168696, AL046849, AI619502, AI433976, AI802542, AW268253, AL045500, AI497733, AI312152, BF795712, AW026882, AI345735, AI783504, AV764282, AL036396, BF812938, AI800453, AI349933, AA640779, BE964700, AI349937, AI340603, BE964812, BE018711, AW089572, AL036274, BE964876, AI500659, AV682792, AW068845, AV717179, BF812961, BF794994, AL036403, AI866608, AL036802, AA508692, BF726421, AI269696, BE048013, BE965432, AI275175, BF340031, AI570384, AI224992, BG030189, BE620084, AW150578, BF034349, AV758668, AI636445, AL119049, BG222103, BF103225, BF792469, AV702623,

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HATDE03	166	831097	1 - 1913	15 - 1927	BE739465, BE891978, AI064814, BF574666, AW500374, AI672465, AI018787, AW052053, BE535718, AI085948, BG113775, AI990302, AI953673, AI420283, AA133962, BF222709, AI950950, AA531344, AA581887, AI539437, BF576522, AI191578, AA947570, AI765646, AI678816, AI128106, AI769529, AA576370, AW665382, AW611714, BE466886, AA487550, N47086, N46831, AI360979, AA531240, AI066702, AI968589, AI298611, AI952473, AA424262, BE463868, AI655143, AA714725, AI678531, AA278524, AI923495, AA447968, AI806746, AI954030, AI869033, AA134028, AA960785, AW207365, AA947634, AW136008, H11944, H28911, BF211396, AI217739, AW631302, AA417939, AW594400, AI696137, AA835689, R52424, R77636, BF431514, AA970398, AI800080, R38869, AW235319, AI910543, AV714244, AI475414, H11945, W37736, H28910, AA491492, AI669956, R82055, BF432711, AA531383, AI002331, BF446566, AA505809, AA508666, AA828887, AF202372, R40339, R15052, R15026, R77637, AI934568, R15027, R24749, BF431117, AW182669, AA609326, AI559909, AW207410, AI657192, AA653714, AI364644, R33663, AW999003, R41466, AF202334, AA405665, AW196963, R33778, T80571, AA476851, R41465, AF202335, R41488, R45544, AA745998, AW138013, BF687916, BF093940, BF949563, and AL035252.
HATDF41	167	785628	1 - 1302	15 - 1316	AI621225, AV747671, N63573, N92200, AV746634, BG231726, AW183140, BE856270, AW167032, BF948891, AV748252, BF435347, AI858359, AW148853,

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HATDH23	168	603959	1 - 1326	15 - 1340	BE501362, AI655555, BE046961, U69204, AW135384, AW885981, AW952627, AA922435, F07076, BG109227, H83335, H04786, T04880, Z38941, M78402, BF679749, H17078, BF434418, BF195094, AI917865, AA459264, AA682757, AI816775, AW815883, AW502971, BE833526, BE833420, AA703265, Z40171, AI968933, BE886315, AI204895, Z42798, AA837300, R13314, BE741639, BE154322, BG008525, BE741379, BE743916, BE046895, AI202971, AI557275, AF013970, AF069747, AF076461, AL121906, AF052210, AF068266, AF076458, AF076457, and AF076459.
HATDH55	169	847323	1 - 2083	15 - 2097	AW965167, AI818248, AV751582, AI973120, BF968711, AI655459, AA402799, AI424040, AI655673, AI423152, AW086426, AI754194, AI758361, AA576540, AI261621, AA402807, AW665992, AI952311, AI887993, AW148650, AW771900, AA759224, AW342012, AI271342, BE828082, AW021496, BF208987, BE968521, BE972439, D62867, AA345189, C16554, AI472528, AA452472, D61742, AI582519, AI935911, AI049844, D62022, AI572728, AW130595, AW958018, AW264671, D62562, AA248386, C01046, AA804737, AF199023, and AX035230.
HATDO84	170	609850	1 - 944	15 - 958	N22428, AI049709, AA284247, AI635440, AI887235, AW192179, AI440117, AA515728, AV755593, AW973992, AA683069, AI380617, AI821931, BE501593, AW467607, BF725761, AW237905, AV756491, AI753672, AI358712, AW023111, BF526964, AI493583, AW963444, AA657752, AI249365, AC025275, AL096840, AL049839, AL158046, AC027644, AC005231, AC004181, AB000876, AL357519, AC020552, AL031291, AL121886, Z82194, AC002310, AL008725, AC005619, AB000882, AC011811, AC007868, AC004000, AP000505, U95742, AC007011, AL035587, AJ400877, Y14768, AC006088, Z82244, AL109925, AP001752, AP001052, AP000509,

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HATDU01	171	847028	1 - 1288	15 - 1302	AI963460, AI521577, AA663192, AW085712, AV703782, Z30289, BE762852, AW800403, AA912320, AW593663, AW969743, AA483606, AA570740, AA644090,

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HATDW05	172	566849	1 - 544	15 - 558	BF968910, BF726628, AI590120, BF970768, AL041772, BE047737, AW020095, AW673679, BG029053, AV735235, AW071417, AI567582, AV757737, AL038445, BG168549, AL036274, AL036361, AW161156, AA225339, BG030364, BG178488, BG108244, AI921248, BE045182, AW059828, AI868931, BE736300, BF885081, AL041150, BF344691, AW238730, BF343568, AA572758, BG113188, BF885675, AV682645, AL036403, BE965067, AI340603, BG179633, BF883916, AV746964, AW189301, AV729890, AV760409, BE964497, BE965724, AL036146, AV733734, AI345543, AA580663, BG027280, AW806761, BF924882, AI783504, BF971016, AI572787, BG029667, BE047833, BE048071, AI348897, BG166654, BE964876, BF904265, BG179993, AI312428, AV647670, BF872670, AV648263, BF338002, BF968558, AW673635, BF343172, BF856052, AV682809, AL038605, BF822127, BE877295, AI554245, BE172412, BE886827, AI569583, BE878028, BG249582, AW151136, BG165051, BF527014, BG112718, AI500077, BE895585, BE785868, AL119863, AV712672, BF826445, BF814357, BG110684, BE047952, BF816037, AW169653, BG058150, AI433034, AI431424, AI349645, BG260037, BF814525, AW089572, BG180996, AI335426, AI802542, AI348777, AI699865, AI497733, AW999049, AI269862, AW827115, AW161579, BG257535, BE886728, AI815232, BE964614, BF924897, AW302965, BG110517, BE048087, AA640779, AL118781, AL120853, BG168185, AA613907, BF792961, BF038131, AI478123, AV734130, BG113385, AI439717,

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HATEF13	173	782358	1 - 1665	15 - 1679	AW971762, AI809005, AW968446, BF223096, BF434222, AL135712, BE464090, AA961822, AI936383, AW241448, AW296283, BE867187, AW241505, N80207, AW195211, AI807109, AW299231, AW473218, AA459127, AW241601, AI203172, AA458908, BF247444, BF223606, AI801133, H67242, W38497, AL135711, BE552408, AI522215, AI671270, BF083419, BE172783, AW440083, AL133380, AC069126, AL133380, and AL359819.
HATEF64	174	571035	1 - 1321	15 - 1335	AW976316, AI655969, AW014726, AI248683, AA748659, AI291114, AI828956, AI243118, AA971994, AA953845, AA724447, R86082, AA929012, AA758001, AI004477, BF445841, AI275536, AA608936, AI142787, AA084349, AA490646, BF889329, AA077124, AI381367, AA077006, AW811569, AL118502, AC069008, and AC069008.
HATEH40	175	637513	1 - 549	15 - 563	AI927895, AV682108, AA977532, AI219411, AW819739, and AI370381.
HATEI22	176	858585	1 - 2404	15 - 2418	AW025332, BE387500, BE272406,

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HAUCC84	177	830672	1 - 1294	15 - 1308	AL532628, AL532672, BE383865, BG165584, BG118974, BG254895, BG032294, BF125805, BE563592, BE275966, BG251927, BF982112, BE882130, BE273386, BE621346, BE621600, BE910077, AW340002, AW662348, AV690660, AW956285, BF125984, AW263252, BE786915, BE878459, AI302813, BE384949, AA806234, AI800828, AW337920, AI685453, AA582942, AW960290, AW150706, AI566501, AI802925, AI022951, N32077, AA743819, AW887044, AI160053, AI336188, BF724458, AA643850, AW874420, AI091958, AW081284, AA512938, AI687081, AW051587, AV712884, AA884985, BG118001, AI738521, AA812286, AI185199, AI761431, BF588732, BF089694, BF131600, AA403009, AU155358, AA047094, BF062838, AW130755, AI554205, W60982, AW069431, AA143405, AW511552, AI086947, AI952635, AA862513, BE713090, AW025157, AW591573, AI674916, AI911657, AA457705, BE735733, BE713112, AW418700, AA410666, AW009464, BE713101, AI684131, AI811699, AI613185, AA043722, BF025858, AA101008, AA143404, AI812095, AI695151, AA662383, AA034911, BE786538, AI445209, BE551911, AI306627, AA152449, AI446572, BF089713, AI760791, AI093619, BE713115, AI955408, AI344379, AI739460, AW002682, BE816322, N29782, AI824906, BF588514, W52269, AA622005, AA586560, AI798484, BF328748,

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HAWAS41	178	877621	1 - 995	15 - 1009	AA320493, AI613459, AW888719, AW151102, AA324108, BE062357, AV737323, AA595661, BF896020, AA191418, BF797630, AI523205, BF868826, BF880881, BF681465, BG110480, AI310670, AI754257, AI251696, AF106953, AL034380, U47924, Z93023, AL163279, AC005081, AC018755, AL022326, AL162505, AC003101, AF134726, AC009032, Z99128, AC006948, AL358777, AC011475, AC005000, AC025588, U52112, AX039602, AC008747, AL080243, AC006511, AC004686, AC004526, AL020993, AL109797, AC008733, AC005527, AC011497, AL135744, AC005696, Z93017, AC004876, AL049840, AC004867, AC007226, AC006317, AC004762, AL442167, AC005015, AC005821, AC002369, AC016940, AL163285, AC008050, AP000502, Z99716, AC004922, AC006538, AC010271, AE000658, AC006277, AC006483, AC005089, Z83844,

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HAWBA65	179	542056	1 - 547	15 - 561	BE882043, AL157550, AA779384, AA421118, H01594, T95256, BE385065, AA393042, AA320903, BE698005, BE697965, BE928303, AW149302, AI208944, BE928327, BF336084, AA834024, BF989445, BF951328, AA165096, BF678545, BG004406, BE541639, AV685396, W80650, AI654291, BF858156, AW975618, BF854283, BF813521, BF858151, AV718692, AV699550, AW966053, BF808929, AV724520, BE697956, C14429, R75688, AV718489, AA299975, AW978634, C14389, AW964468, AW966531, D80269, AW966534, D58283, AV738340, AV720791, AV718681, D80227, AW949645, AW959628, BF989035, AW973541, D59619, AV742048, D80210, D80195, AV720203, D80240, AV720028, D80166, AV718440, AV718844, AW975621, D59859, AV720731, AW965177, D51799, D51423, D80219, D80391, D81030, C14331, AV719188, D80253, AV719822, D80212, AW966062, D80268, T03269, AW960553, AW973307, AW966330, AW966054, AV719324, AV719783, D80043, D80196, AW959570, D80188, AV718800, AV699927, D59927, AV720211, AV720464, AV719557, AV718770, AV722801, AV699447, AW966013, AV723927, AW949642, D59889, AW949656, D80366, AW966041, D80193, D80038, AW959598, D80022, D51060, AW949632, AW964756, AW966050, AW959597, D80378, AW965158, AW949643, AW949629, AW949641, AW949633, AW978661, AW949631, AW949657, AW959202, AV742001, D59275, AV720812, AW949618, AV721386, AW949653,

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HBAGH64	180	801884	1 - 1704	15 - 1718	AA418617, BE018485, AI658681, BE466145, AI806836, AI653272, AA004211, BF970406, BE302094, H10330, AA594901, W03931, AW953290, AI580148, AA506350, AI804211, BF589715, R61309, AA721162, AI810310, N62384, AI669907, AI342168, AA452114, AW022528, AI262137, AI264925, AA680147, H10331, AW275301, AA765972, N79353, AA350799, AA485210, C15277, AI867727, BF086698, AI474438, AA093047, D60782, AI129224, AI535847, AA350798, AA897480, and AV714899.
HBAGV01	181	862000	1 - 408	15 - 422	AW272267, BE535679, AI984059, AI675054, F20528, AI470603, AC068151, AC068151, AC068151, AC010333, AC010333, and AC010333.
HBAMC50	182	877577	1 - 2220	15 - 2234	AC019216, AC019216, AC016201, and AC016201.
HBAMC57	183	608189	1 - 293	15 - 307	BF107445, AI283755, AL356244, AC021035, AC021035, AC016745, AC016745, AC016767, AC016767, AC016767, AC021029, AC021029, AC021029, AC016424, and AC016424.
HBBBA42	184	841010	1 - 1744	15 - 1758	AL533924, AL526520, AV726546, BF966887, BF218062, AA743107, BE888537, AV714517, AI057577, AV752140, AV716598, AV710532, BE878693, AV716036, BE962060, BE966331, BE882059, BF207637, AV722977, AV703746, BE047300, AW131478, BE617594, BF033541, AW150870, AA843907, BE616933, AW976418, BE882011, BE613767, BF033375, BF966230, BE677188, AW058604, BE971392, BE878403, AW965471, AA805743, AI802386, AV753593, AA129300, BG151522, AI703497, AI972411, BG169662, AI813381, AW262905, AI378956, AA843111, BE138908, AW103388, BG025124, BF348549, BF676381, BE550818, BE350759, BF672335, BF215482, AA706310, BE617091, AA932912, AI291412, AI628348, AI475943, AW474798, AI963276, AI123050, AA213765, AI956050, BE614633, AI491877, AV733199, AI719281, AA587471, BF216598, AA043390, AI347588, BF687718, BF196083, BF696446, N35701, BE065271, N21234, AA490529, AA314393, AI123498, AA947501, AI342758, N69513, AI241195, BE568258, AA588544, N46837, BE167778, BE566971, BE539032, BE897954, BF679384, BE242417, AA157014, AA662687, AA844513, AI299272, AI636378, H97173, BE939605, T63352, AA743140, AI692905, AI273073, AW517764, BF438947, AI473201, AA017285, BF221581, AI440270, BF093849, AA604634, BE567541, AA129265, BF439008, BF031010, AW674254, H85318, BE960830, AA890260, AV724404, AW235970, AW444825, AI264952, N27513, AA213837, AV656135, AI525304, AV652218, BG058352, AW195029, AI245588, AA043391,

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HBBBB08	185	736014	1 - 1042	15 - 1056	AW971745, AW972092, AW968355, AW968356, AW972093, AW968729, AW972091, AW971740, BE622828, BE612945, BE613136, BE622931, AI432655, BE613349, AI432644, AI623302, BE613070, AW969229, AI431310, AL134524, AW972090, BE621911, BE622868, AI431230, AI432653, AI432654, BE614307, AW081103, BE614237, AI431328, AI431312, AI432677, BE672759, AI431351, BE620742, AI431353, AI431347, AW858522, AI432650, BF448552, AI431354, AI432661, AI432675, BE672745, AI431337, AI431323, BE618811, AI431307, AI431316, BE672732, AI492519, AW128900, BE614451, BE672719, AI432651, AI432647, AI432674, AI432666, AI431330, AI431238, AI431243, BE672767, BE672748, AI431248, AI432649, AI432672, AI432665, AI431255, BE672742, AI431254, AI791349, BF589777, AI431357, AI432662, AI431345, BE672774, AW601637, AI431241, AI431346, AX030435, AR080280, AX030436, Y17793, AR035224, AF064854, AF019249, AR093392, AR091518, AX009487, AR093384, I85513, AR009152, AR009151, AR027099, AR093383, AR071207, AB026436, AL133074, AL133053, AL133049, AL133076, AL122101, and AL133068.
HBBBE83	186	838591	1 - 456	15 - 470	H30810, H30728, AI431323, AI432666, AI431307, AI432644, AI431316, AL042853, AL040207, AL042515, AL042787, AI623302, AI432653, AI431238, AL043321, AL042729, AL042508, AL042655, AW858522, AL042488, AL043091, AI432656, AL045891, AL135012, AL046356, BE672622, AL042533, AL042832, AL047611, AL515375, AL042842, AL043166, AL042931, AL047675, AL043089, AI431315, AL042745, AL047092, AL047163, AW968355, AW081103, AI431321, AL043295, BE672759, AI431235, BE672718,

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HBBMA11	187	787308	1 - 918	15 - 932	AI687282, AI559670, AC002525, and AL137143.
HBCAK10	188	810227	1 - 1939	15 - 1953	AW182452, BE250716, AI890424, AI640157, AW474326, AW130973, AI056660, AW150989, AI288965, AA242985, AW793562, BE250569, BE465736, AI744015, R06846, AI651429, AI636121, AA251971, AV650220, M91487, AI985781, R02003, R06845, AW363115, BG037194, and C01117.
HBCAK80	189	840585	1 - 994	15 - 1008	BF980156, BF674028, BF037396, AI827976, BE855673, AA122240, AV729165, AV729457, AW300253, BF196634, AA135573, N36519, AW410901, AI762869, AA135511, AI880537, AI085939, AA705100, AW088128, BE206370, BF836005, BG003693, AW136728, AW821580, AI281972, AI830500, N24943, AI906385, AV729280, AW411073, AA513331, AI718459, H28369, AW614334, AI095471, AA569826, AI364978, AI274978, BF836024, R81927, AI087085, N26135, N35045, N35524, BF836018, AI148221, AI628576, AA708712, BF838271, AW591320, AA115943, W27472, R81822, AW519187, H28882, AA398892, AI948784, C18639, AW372337, R51352, H13614, AW237761, H13481, AI139410, AI984811, H27676, AW271276, R70991, AU158069, AL120047, H04671, N33820, BG014002, N67646, R67033, BE833606, AI263016, H17503, H25341, BE350526, R64055, AW591389, R50101, H27677, BF332914, H28883, H26926, AI587366, AA322603, AA402183, AA295770, BE019815, AI635773, AI905178, H26920, AI628989, AI269612, BE791414, AW905503, AI951421, R85998, BF328512, R65656, BF364526, W01095, AI765226, BF944253, BF328499, AA708859, R52137, AW905501, BF364532, R63953, BF332907, BF332911, AI990599, H27825, BF332891, BF332899, BF332912, BF332909, BF332889, BF332888,

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HBCAQ48	190	525002	1 - 407	15 - 421	BE256875, BE396065, AW962240, BF341135, BE255603, BE279559, BE395916, BE257892, BF801910, BF347643, BE902725, AL514656, AL514630, BE272444, BF530222, BF568631, BE255314, BE620233, BE733233, BE885199, BG169667, BE297664, BE733249, BE732174, BE019874, BG114680, BE256319, AV697143, BE253762, BF303839, BE271968, BF684266, BF684779, BE272077, BF980642, AA326808, BE281078, AI751432, BE887497, AL536378, BF853540, BF816956, BE719362, AA366533, BG119570, BG171083, BF308912, BF343027, BE279612, BF314354, AA115980, BF317248, BF923458, BE542798, BF339840, AW404811, BE382805, AA159105, BF206383, BF932268, R17159, AW960079, AA356829, AA078892, BF854500, AA171866, AW068490, AF069733, AK000228, AL117487, AC026685, AC026685, AC018809, AC018809, AC018829, AC018829, AC011610, and AC011610.
HBCAY17	191	801885	1 - 1072	15 - 1086	AV706681, AA476916, AI493883, AI871168, BF513825, AI360093, AI167767, AI061121, AI421346, AI086735, AA236376, AI498914, T23477, AA477026, R43982, H10040, AA236377, H78174, BG057842, AW972915, Z40753, AA887091, AW802178, AA677504, BF901476, AA541412, R36912, BF339369, R49254, BF895794, H78173, H10094, AL514473, AL514155, AL514087, AL513553, AL513977, AL514721, AI583065, AL513597, AI678989, AL513783, AL513979, AI590021, BF970652, AI689175, AI873644, AL514455, AW079859, AW084117, AL514025, AI921176, AL513951, BG108268, AL513999, BG260144, AL514623, AI249877, AL514015, AI744525, AL514357, AI611743, AI677796, AI637584, AL514063, AL513631, BE965169, AL514867, AI863382, AI633125, AI919534, AL514627, AI589273, AI539687, AL514047, AI520785, AL515413, AI889376, AL514089, AW005614, AI476478, AI677646, AI679214, AA449768, AW198090, AW169001, AL514493, AI621362, AI826225, AI811344, BE965732, AI432030, AI498067, AI627988,

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HBCGE46	192	658669	1 - 1024	15 - 1038	AL022168, and AL050309.
HBGBA14	193	838123	1 - 751	15 - 765	AA523881, BF902063, AA524036, AI683694, BE620592, AI688317, AW612950, AW075896, BE620052, AI858933, AI394309, AW205191, BF197492, AI434019, AW151530, AA128407, AW973472, AI582008, AW571727, AI371369, BE794101, BE798086, AW512224, AI674185, AI683559, AA291456, AI636139, BE043958, AA554717, BE910647, BE263650, AI918634, BF849476, BF055737, BG026746, AI886022, BE874716,

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HBGFQ34	196	793803	1 - 505	15 - 519	AA809737, AW516225, H01451, BE793390, AW992403, and AC000134.
HBGML95	197	839192	1 - 439	15 - 453	AW954182, H17863, AI567123, AA767653, BF516444, AA993496, BE048283, AI679819, BG236153, AI799706, AI860759, AU151849, AI524226, BE222773, AI884486, AU159279, AU152476, AA421148, AI679243, AI554646, AW168928, BE675568, AA846599, AU159432, AA206837, AW001228, AI889279, BE891997, BG056447, AW193525, AA058367, AA447998, AI923054, W89146, BF032573, AI290066, AI358091, AA576924, AU159050, AL519889, AA599007, AW067953, AA969775, AA700339, AA523949, AA705404, AA652622, AA564967, H61752, AA593588, AW169777, AA402926, AA448141, AI696808, AI249113, AI805502, AU127207, AA887759, AA581976, F10215, T53109, AI277898, AI866503, AI804832, AA350860, AA773851, AW674163, T89112, AW473225, BF510199, T49466, AA887749, H29750, C14005, T61678, AI860478, AW295179, AI658678, AI199183, AI619916, AA527474, AI003564, H61751, BE350002, AI214409, BF437387, BF945929, BF944117, AW188721, BF945905, AA581255, BF943992, AI701266, AA715116, BF743601, W35420, AW087438, AA299510, AW375741, BF945906, AA570117, AA471194, AW959866, BF155226, BF155240, T73430, AI940516, AA548627, BF345148, T53110, BF155241, AI884326, BF115079, BF246171, BF945147, AW238218, AW951512, T29710, AW969585, AW879741, BF805880, BF808578, AK000679, and AK023930.
HBGMT60	198	840586	1 - 401	15 - 415	AI769689, BE675601, AI863005, AI678000, AW189963, AI986207, AW471273, AA317806, AI590161, AI335104, AI469257, AI954604, AW956075, R73463, AA856793, AI651948, AI500040, AI224459, AI217945, AI287290, AI708253, AI553687, BF923901, AI766992, AI399986, BE671802, AW572622, AI868191, AI919161, AI521061, AI424272, R50074, AA653763, AA335980, AA335672, R48744, AI932452, AA505828, H21954, AW196184, BF095230, AI564415, AI281867, AI955487, AI804505, BE909551, N29277, AI811603, AV654529, AI624157, AI802372, AW083730, AA805486, AI560679, AA464646, AW167918, AI690748, AI568060, AI382670, AI370181, AI277008, AI453487, BG107670, AI648408, AI624120, AW090087, AV692108, AI540784, BF339322, AL039086, AW102900, BF055899, AI690536, AW128983, BG032219, AI954293, AV756658, AI275686, AW022682, AI318603, AW366372, BF054877, AI918408, F36033,

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HBHAA53	199	603183	1 - 660	15 - 674	AC011462, AC023510, U91321, AC011386, AC011386, AC021201, and AC021201.
HBIAU43	200	840354	1 - 1232	15 - 1246	AI267349, AI371593, AA827978, AL036706, AW769291, AW021774, AI216978, AL138242, AW467323, AW410116, AW502305, AW105737, AL119298, AI311505, AI345900, BF797630, AW502100, BE147093, T48872, AI590459, AA714595, AL045709, BF340148, AI151261, AI254540, AI224184, AI275328, AI251250, AA533408, AI284881, AW268746, BF725504, AI284888,

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HBIAW58	201	596805	1 - 1496	15 - 1510	AI301719, AI310451, AI301268, AI284640, AI754955, AF330238, AI061313, AW407578, AW327624, AL042853, AI801482, AW969629, AW327868, BF827410, AA579179, AL120343, BF885741, AL120502, BE049095, AV755677, AI281881, AV760777, AW973397, AU144036, AV763290, AI434695, BF681427, AI754253, AI246796, AI307201, AW965008, AV710774, AI669589, AV710770, AL042420, AL048925, AW238583, AW028429, AW439558, AA456976, AL041690, BF991286, AV725431, AW513362, AW965237, AL121235, AI610607, BE389111, AA877817, BG236735, AV730310, BF325535, AI567076, AU145393, AW474160, BE042649, AL046205, AL044940, AW301809, BF592200, AV713243, AV761745, AW265393, AW956704, T06828, AW467362, BF797630, AV762982, BE252421, AW630298, AI254615, BE872393, AW662543, AA587604, AW473467, AI754658, AW080811, AA719292, AV761925, AI355206, AA533333, AV761155, AL119300, AV758600, AL038705, BE502107, AU120295, AI151261, AI889440, AC011489, AL136179, AL121586, AF196779, AP001412, AC005702, AC009470, AC004971, AP000152, AC005190, AL031311, AC004884, AL022315, U62293, AL022302, AC004662, AL161655, AL117333, AC005548, AC007383, AF181897, AC007151, AC005057, AC006536, AC010209, AC011497, AC008569, AL353807, Z82208, AC004825, AC015651, AL023581, AP000501,

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HBIBB20	202	897484	1 - 1245	15 - 1259	AL040502, BF312099, BE378197, BE875599,

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HBIBM33	204	852045	1 - 711	15 - 725	AC016738, and AC016738.
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HBIBQ69	206	580807	1 - 1234	15 - 1248	H30708, AL048275, AV759632, AW068580, BF875954, AA502532, BF679710, AV764201, R95840, AC009756, AC011451, AC024561, AL162505, U56732, AC020916, AC005086, AC005182, AC006539, AP001752, AL049694, AL049870, AC004166, AL157713, AL034380, AL353706, and AP001726.
HBIBR38	207	612783	1 - 810	15 - 824	AI800957, AI864142, AA449997, AV756491, BF512900, AA825827, AA713946, AI889795, AI889804, AA704393, AW963463, AI282479, AW270385, AW504224, AA714110, AW021917, AW189113, AW502237, BE062478, AA129746, AW975043, AA701080, AI612142, AV762866, AW819125, BF811954, AI888468, BE062476, BE150803, AW023302, AW904850, AW835708, BE158716, AI560085, AI654285, AI583252, BE250197, AI732120, AI312596, AV738383, AC005736, AL157768, AL137784, AP001716, AC005971, AC011465, AC002126, AC010458, Z93023, AP000111, AL109804, AL035704, AP000563, AC006057, AL353807, AC005015, AP001711, AC008569, AL109623, AC011495, AL079335, AL133551, AP000291, AC004408, AC005566, AC011479, AL031427, AC005098, AC000052, AL121752, AC003101, AL132639, AP000113, AP000045, AC009247, AC004216, Z83826, AC009248, AL034420, AC005409, AL023583, AC005778, AC024563, AF243527, AF134726, AC008812, AP001760, AC004150, AC016655, AL022302, AC010419, AC005529, AL031283, AC021752, AL137073, AC004019, AC009244, AL031311, AC006011, AC005513, AC007425, AC008753,

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HBIBR61	208	824258	1 - 2192	15 - 2206	AU120948, BF530058, AW970203, AU146875, AV721313, BF877868, AW964743, AA534487, AA515017, BF108779, BF675408, AW452824, R88657, AA082670, H28144, BF944759, H29064, R88658, AA729228, H30613, AA326542, H29167, T15707, R85336, R85335, BF378118, R25826, R46824, BF439781, BF950579, AA598665, AA339360, AI276885, R53946,

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HBIBT13	210	608320	1 - 616	15 - 630	AL023656, AL356958, and AL023656.
HBIBZ20	211	688861	1 - 1394	15 - 1408	AU130622, BF894349, BF894387, AU129896, AJ006266, AK001585, AK001538, AL160471, AL160471, AL160471, AL352982, AL352982, and AL352982.
HBICB80	212	637516	1 - 771	15 - 785	BE794266, BE733056, BE795373, BF968344, BF206581, BF342354, BE897893, BE407957, AW245467, BE537419, AW250024, BG024362, BE563290, AW732049, BG031924, AL524830, BF670077, BE539026, BF671108, BG116499, BE312539, BE879384, AW245825, BE251000, AW249421, AA315377, AW732087, R25080, BF958045, AI056463, R15290, H21214, F23536, AA195980, BF981767, BF980462, H91907, R42196, AW603753, F28242, R45419, R54946, AA594148, AA081592, F37687, BF673970, AA593184, R51054, AA406204, AL524829, AI276310, AI559863, AI915243, AI866465, AI688848, AW168564, AV712254, AW328383, AI887775, AA838230, AI687054, AI634731, BF346243, BG029829, BE897632, AA693331, AI682749, AI918408, AI915295, AI446301, BE966533, AW963264, AW024793, BF725168, W33163, AI952584, AI371228, AW263804, AI469681, AI364795, BG058217, AA019646, AW058279, AW079432, AA835966, AI918554, AA804786, AW028196, AI446405, AI571861, AA811406, AA497014, R69938, AW020592, BF904180, AV711541, AI539661, BF971462, AW129929, AV725001, AW022494, AI950664, AW020288, AI912333, AW089275, AI682861, AW117355, AI582912, BF725463, AI689420, F36859, BE764656, AI499104, AW167327, AI571980, AA575874, AV660831, AI416961, AI583423, AI813986, AI627714, AW051107, AI364926, AW104108, AL513593, AW130168, BG180468, AI886355, AW007414, AI624510, BE964323, AW104713, AI921236, BF038804, AI572071, AI560625, AI147725, AI926593, AI915701, AI635926, AI859644, AI804505, BF750927, AI469516, AW190297, BF753023, BE964497, AI565932, AI784214, AI679196, AI688847, AL041230, AW118001, F37364, BE886827, AW192052, BE620289, AW020419, AA088789, N36182, AW193843, AW084151, AI925402, AI868204, AI702301, AI471429, AI680326, BE883591, AA808175,

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HBJAV56	214	603529	1 - 767	15 - 781	AI609972, AA502207, AL041375, AI061313, AI053696, AV764259, AI282629, AW265279, AI040051, AA644090, AW301771, AA572813, AL038842, AW576490, BF868994, AI499954, AI537020, AA947265, BE301584, T50676, AW673221, BG230549, BF724838, AA284247, AI114557, BF991208, AI114733, AI133552, AV721426, AA084766, AI619738, AW833047, BE501593, AA669238, AA225406, AW873261, AV762033, AA578621, AW272294, AW516255, AW962006, AV763026, AV763058, AW772848, AA728937, AA599080, AA862243, AA632593, AL046519, BF991881, AA302978, AC006071, AL356801, AL035683, AC027644, AL133405, AC011479, AC004263, AC004983, AC007899, AL049795, AL391821, AL133382, AC006449, AC011465, AF064861, AC004895, AC007450, AC005071, AL121658, AL031432, AC002544, AC005746, AC008764, AC008551, AL136228, AL163279, AL031276, AC020550, AC005821, AC005829, U78027, AP000509, AL121891, AC003043, AL135927, AC007227, AC005326, AC005520, AL109804, AL035422, Z83844, AC008687, AL035071, AC022516, AL355112, AC008155, AC005412, AL118501, D83402, AL049697, AF001549, AB000877, AL121712, D84394, AC008132, AC002978, AL034420, U52111, AC010328, AC004859, AC002310, AC006088, AL049563, AP000689, AC005912, S42653, AC002350, AC003091, AP000555, AC002565, AL138743, AL158040, AC007664, M87914, AL035454, AC004408, AC006345, AC004851, AC008033, AC005874, AF134471, AL357560, AC005261, AC004913, AC011475, AC008474, AC006046, AL133466, AC005667, AL050318, AL049872, AC008521, AL390209, AL021154, AC002369, U91326, AC004033, AC010271, AP000948, AC016995, AL008583, AL118525, AC005047, AP001725, AP000688, AC011495, AL135749, AC007383, AC007774, AL353596, AC006441, AC006333, AP000506, AC013447, D14872, AL022330, AL353807, AC004655, AL133163, AC005790, AC011489, AL009031, AL135787, AC005736, AL033529, AC002492, AL138741, AF240580, AC002326, AJ251973, AC018758, AL034405, AC004985, AC007597, AP000045, AC002316, AC022392, AC005052, AC009060, AC005516, AC004941, AC000385, AC006251, AB014078, AC006312, AC017006, Z98048, AL022313, AL035405,

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HBJAY14	215	626591	1 - 2101	15 - 2115	BF734110.
HBJBQ69	216	560602	1 - 1134	15 - 1148	AW976954, AW183526, AI476426, AW078542, AA649170, AA766581, AA766795, AA811992, AW340278, AA649197, BE064077, AK026036, AL365356, and AL365356.
HBJBR40	217	581104	1 - 1117	15 - 1131	AC021036, AC008044, AC007057, AC002302, AC003687, AC002126, AL353140, AC018719, AL050335, AC006505, AC004167, AL354864, AC006487, AL031681, AC004813, AC007114, AD000812, AC009294, AB003151, AC005399, AC004166, AC022149, AP000014, AC020954, AL023575, AL442166, AL109965, AC005971, AL163284, Z84467, Z93930, AC006449, AL133448, AL133551, AP001729, AC010198, AL135839, AC006271, AL121754, AL136137, AP001678, AC006371, AC011479, AC058791, AC004655, AC005098, AC011490, Z98050, AL049780, AC005740, Z82244, Z83822, AL161731, AF001549, Z84486, AL159980, AC011484, AF207550, AP001714, AP001712, AC012502, AC004491, AC005102, AC004797, AL050307, AL160313, AC004263, AL049749, AL109614, AL096775, AC000353, AL080243, AL049636, AC006345, AC011491, AP001726, AL032821, AC010311, AC004531, AC006966, AC004867, AF064860, AC005747, AC008014, AC006536, AC007637, AC015651, AC020629, AL117380,

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HBJCH46	218	609859	1 - 1103	15 - 1117	
HBJCR17	219	847332	1 - 949	15 - 963	AV757367, BG028512, AW964575, BE885732, AI628602, BF434858, AW451824, BF965238, BE883507, BF377201, AI031539, AA903358, BE857325, AV682520, AW614377, BF589277, BF940304, AW020495, AW957230, BF979809, BF110074, BF577331, AI034009, AI189258, AA460689, AA541800, AW168949, BF447019, AI754579, AI127808, AI418375, AI333874, AI692600, BE163452, AI275148, AA779430, AI608748, AI769143, AI094985, AI631810, AW502943, AI613122, AI799987, AI167426, AI690279, AA961556, AI922793, AW192326, AA884243, AW466920, AA406540, AI056434, BF445340, AI474043, AI554349, AI683228, AI005386, BE551997, AI375147, BE219295, AI023935, AI858307, AA977781, AI014659, AA476600, AI862299, AI373151, H98705, BG026933, AA133556, AA740912, AI445185, AA854666, AA662239, AI219500, AI753034, AA460864, AA825765, AI022572, AA921695, BF449065, AI307163, AA653520, AA084495, H84941, AA633984, AA736977, BE875331, AI942431, N62066, AA547991, AA733193, AA223872, AW470498, AI373517, AW191934, BG254716, AA234147, AV657285, BF447547, BE221862, N90001, BE972678, AA826196, D52785, AA747649, R76670, AW195708, AI914938, T10324, AI766278, BF693955, AA603640, R72724, H00496, R54814, AI336415, AA321072, AA889800, H23411, AA676974, H00451, N67064, BF796159, AA225329, AA234966, R26692, AW002755, BE768914, T06172, AA448680, H87150, AI471026, D61441, AA370613, D56735, N67066, AW572603, D56719, AA665717, D56553, C16271, BE218693, AA768631, D53417, AW811783, C16257, AA768450, AA411734, AI913693, AW235856, R76341, BF572614, AW389559,

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HBJDC57	222	603516	1 - 729	15 - 743	BE162541, AW002578, AA029910, AA844343, AA778032, AA769970,

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HBJDR18	223	604907	1 - 1104	15 - 1118	BF677892, AL046409, BF668217, AI963720, AI284640, AV710066, AW303196, AA490183, AW301350, AI334443, AA491284, AW274349, AV761362, AW500125, AA521399, AI270117, AA521323, AW327868, BF915247, AU144849, BF915722, AA581903, AW833862, BF915628, AV740801, AL138455, AV757607, AL046205, AI431303, AA877817, AW265393, AW472872, AL042853, AA468244, BE150580, AV763971, AL038072, AV762395, AL119691, AV761489, AV761745, BG109996, AV762064, AA629992, AV763670, AV759507, AI133102, BE253048, AA680243, AV762098, BF130605, BF347791, BF347740, AI732120, AV762397, AA502104, BG249643, BF697673, AV764307, BE277210, AW088846, AA533036, BF337291, AA587604, BE674881, AW245747, AA610491, AV759204, AW960468, AA507824, AI801482, BE297262, AV733830, AL038705, AI799642, BF541120, AI696962, AV760057, AI345681, AI345675, AW274346, AW193265, AA846876, AA584145, AA468022, AV762111, AA584167, AI457397, AI919265, BE409047, BG059314, AA533333, BG059568, H71429, AV729813, AV757425, AW662543, AI732865, AV759172, AV763449, AI307201, AV763290, AI821714, AV762959, AI792133, AI791913, AV735370, AW419262, AV760937, AA908687, BE049139, AV763540, AW872676, BF241967, AA584195, AW103758, AV729881, BF680074, BF676536, AA514854, AA613227, AI355206, AW872575, AI744826, AA613203, AA526787, AW248847, BE901529, AV729809, AW439558, AV764578, AA719292, AA468131, AL041690, AV725431, AV759274, AV763633, AA480772, BG236628, BF679256, AW956640, AA503473, AI473943, AV761843, BE139146, AV760207, AL042420, AW268300, AW410400, AW973397, AW265385, AI254913, AI270559, AI821785, BE276880, AW976010, AI610920, BE046438, AV764530, BF030591, AV762505, AA126450, AV763847,

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HBJDR83	224	600395	1 - 1471	15 - 1485	AW886349, AW846311, AW846394, AW846409, AW846293, AW846402, AW846410, AW846491, AW846303, AW846493, AW846164, AW846216, AW846168, BE180603, AW846569, BE348777, BE043052, AU121289, AV731928, AW846401, AW846581, AW846298, BF826938, AI370959, AI018133, BE148579, AL022154, AC006383, AC003100, AC010326, AC006998, AL109963, AC016955, AL391358, AL133274, AC012667, AP000168, AP000325, AC004103, AP000054, AP000122, AC000073, AP001720, AL049762, AC009501, AC000085, U72787, AC002465, AL136125, AL031965, AC006477, AL031433, AL021307, AC005605, AC005604, AL353739, AL121865, AL121755, Z49918, AL138743, AL392173, AC004585, AP000457, AC068919, AL136325, AF052041, AP001669, AC007676, AL359846, AC005900, AL133271, AC009308, AL391294, AL034410, AC019046, AC007126, AL121872, AF095725, AC007102, AF223391, AF172277, AL354750,

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HBJEE51	225	737793	1 - 1235	15 - 1249	
HBJEL21	226	866158	1 - 2068	15 - 2082	BE615202, BG169721, BE616913, AW949473, BE274024, BF692414, AA563588, AA287619, BF184982, AA286728, AI263859, AI743361, AU133977, AI696880, AI056295, N26148, BF349639, AU146288, BE208530, AU132431, AV744135, N27696, AI955302, AA192128, AI384073, AI382374, AU120132, AW051393, AI955293, T28245, AW272463, AV736955, AW772534, AW732203, BE811130, AV753966, AA329458, H12745, AI318282, H70710, T81259, AA661593, BE568474, AI467973, AI283452, AI589987, AA552124, AI393951, BF513395, AI077636, BF976295, AW779476, AI283469, AA622568, AU121036, AA613057, BF002616, AI806680, AI092457, AF039019, AJ236885, U80078, X98096, U30381, U96633, L04282, AJ001165, and AC004518.
HBJFH84	227	836997	1 - 2280	15 - 2294	BG168908, BE669599, BE559886, BE671245, AL039242, AW574499, BF035202, AI817157, BE551031, BG058530, AI742018, AW504483, AI685441, BE549639, BE869110, AW500613, AW503295, AW513121, AW167429, AW500336, AV661781, BF446667, AA587395, AI961516, AW575813, BF438087, AW364816, AI765818, AA584374, BE799849, AI651724, AI800997, AW937184, AW575819, AW438897, BE503201, AW503486, AI637483, AI829845, AW009504, AW504274, AW518691, AW272519, BE267561, BF891128, AI279109, AI276513, AW166344, AI143557, AI273342, W56046, AI185723, AI471654, AW501952, AI281077, AA190380, AI310063, AW503285, AA159740, AW004740, AA280638, N73283, AA132689, W86235, AI689171, AI735565, BG036831, AA836560, AW130761, AA522514, AW129199, AW364811, AA625247, AW572342, N91945, AI224939,

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HBJFJ14	228	845228	1 - 1241	15 - 1255	AL536925, AA133348, BF508961, BF342190, BF508959, BE251476, BE252801, BF976655, AW131509, BG113083, AI817212, BE220465, AI912178, BF091627, BF057311, AA442403, AW058247, AI816308, AI888601, AI831434, AU160292, AU160347, AA543041, AI696844, AI983251, AW264031, AI926719, BG113967, BE328136, AA446160, BF941140, AI831083, AA082656, AI497779, AW192538, AA022904, AA022972, AW008439, AU155432, AU146332, AI885239, AU154966, AW148820, AA620433, AW475073, AI954485, T15600, N52244, BF446724, AA129734, AA629905, AW057745, AW262968, R32250, AI202153, AI093314, BG056301, AA629889, AI343894, AW962907, AA679834, AA780635, BE208850, AW469141, AW026233, AI083929, AW518874, AI744465, W68768, AA405340, AI434113, AA534714, AI161141, AI139082, AA483012, BF475496, AW627627, AI563900, AA918652, AI832979, AI146997, W68701, BF725931, W60222, N40357, AA464932, N27541, AW029604, AA668574, AA043312, AI129404, W68665, AI342657, AA865133, AA613441, D54423, AW090297, W77998, AI348299, AA131621, AA100937, AA868711, AI335771, AA405305, AI275837, T16126, AI469139, AA102433, BE938044, N30282, D52220, BE301222, AI208882, AA634412, AI198033, AA122182, AW249448, AI161416, AI623639, BF477410,

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HBJFJ26	229	130696 9	1 - 881	15 - 895	AL526811, AL522907, BE619639, BE798341, BF036910, BE785683, AL528580, AI816714, AW410741, AW675663, AA226255, AA813934, AA906037, AA134768, AI077876, AI354477, AA037624, AA641954, N53061, AA134769, AA424082, AW814771, AW440434, AW074122, AI302550, AI813620, AA424016, AA709434, AI241581, AW074284, AW504945, W93593, AI206461, BE396498, AI004585, AA911289, AI218492, AI612865, AI277607, AI187313, AI350811, N73248, AW275190, BF353710, AA954030, AW276616, AI202853, AW439574, AI265804, AA226533, R02524, AA037625, AI244408, AI241127, BE513950, BE711537, BE300852, AI954356, AW193200, AW410740, AL522908, BG030252, BF038884, R29049, AA873196, AA876151, AA973778, AA872499, AL526841, BF903325, AA010653, AA216115, BE177689, BE898093, AW629350, BF088300, AI434025, BE734483, BE869464, BF335325, BE732878, BE731318, BE877188, C02093, BF755890, BE731332, AW015508, BF756605, AA609581, AW016529, AA760741, AI283813, AI096744, AU156247, N26872, AA057074, N20594, AA580145, AA486563, AA535449, AA917667, AI678948, AA948624,

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HBJFJ83	230	566478	1 - 1194	15 - 1208	BG232026, AW188969, N51227, C14208, AA902291, AV707103, R39551, H29034, AI472059, AW949436, AV655824, AV706278, N36879, AW950039, F10916, AW963117, AA412677, AV706447, AV701983, AV724991, AI525796, AI541218, AW951214, AW950675, AW956166, AL354792, AL354792, AL161911, AL161911, and AL161911.
HBJFJ83	231	852046	1 - 1151	15 - 1165	BG232026, AW188969, N51227, AA902291, R39551, H29034, AI472059, AW949436, N36879, F10916, AA412677, AL354792, AL354792, AL161911, AL161911, and AL161911.
HBJFP47	232	603438	1 - 1007	15 - 1021	AV706453, AV650367, AV705504, AV701596, AV702187, AV706683, AV705343, AV701873, AV701704, AV727541, AV708872, AV709222, AV706104, AV727347, AV703505, AV706290, AV707942, AV702671, AV707589, AV704605, AV703232, AV703388, AV650843, AV707311, AV725321, AV729129, AV647654, AV703761, AV706882, AV707088, AV702339, AV707640, AV708991, AV727355, AV705866, AV645545, AV709273, AV707783, AV702854, AV702354, AV707948, AV728715, AV727459, AV701728, AV702787, AV655067, AV702851, AV726628, AV703417, AV705234, AV707401, AV709356, AV706220, AV705263, AV729473, AV727822, AV651897, AV725031, AV705550, AV706992, AV726754, AV704757, AV702498, AV701858, AV709596, AV726755, AV704981, AV701879, AV703525, AV707528, AV708988, AV687909, AV685688, AV689800, AV692972, AV729076, AV656240, AV728997, AV702954, AV709935, AV701184, AV706223, AV705814, AV727139, AV707268, AV706330, AV703086, AV708610, AV725369, AV652156, AV701183, AV702928, AV701874, AV726480, AV702792, AV706357, AV702637, AV701783, AV706012, AV727103, AV729220, AV705684, AV704059, AV727126, AV706989, AV706889, AV707882, AV702783, AV727469, AV726505, AV704924, AV702071, AV703090, AV707117, AV704954, AV705467, AV705525, AV729388, AV704879, AV709025,

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HBJFR77	233	825789	1 - 1647	15 - 1661	W56149, AI458084, AI685399, N73742, BF383168, BF030315, H48629, AA767931, AV684128, H73495, AV698275, H73264, AW975433, AA157814, AA720538, AA209530, H48817, AI916090, AA506385, AL357141, AL021451, AC013613, AC013613, and AL357074.
HBJFU30	234	637517	1 - 463	15 - 477	AW295889, BF433682, AI127319, AA836117, AI342607, AI377294, BF432733, AW195006, AW612499, AI808746, AI924671, AW105213, AI949733, AI399910, AI760171, AW510358, AA773985, AI147428, AL521498, T03488, AA773278, AL521499, AI240524, AA886841, AI274543, N58908,

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HBJFX41	235	603437	1 - 765	15 - 779	AC002558, AL133255, AC022596, AC004216, AL021368, and AL162724.
HBJHO83	236	610259	1 - 958	15 - 972	AW139587, AW206289, AI418005, BF439266, AA196170, AV721569, AA827263, AI493150, AI539840, AA342835, BF525553, AV723060, AL135079, AA992466, R84740, AA889455, AA018860, AI032948, AI086195, AA335442, AA136660, R96454, AI052553, H05897, AW139788, R96455, AW341838, AI916309, AW339238, BE219764, AW277153, AW611961, AA521073, BF335547, AW513165, AI554132, AI204085, AI144557, AA583226, AA946701, AA777781, AI004047, BG253018, AW604457, AW604440, BF439900, AW578528, AI123630, BF945235, AI269030, AV720037, AW373059, AW373058, BE706100, BG026120, AC007276, AC009276, AC078847, AC020910, AC008760, AC022143, AC008747, AL117337, AF205588, AL050308, Z98950, AC005088, AF030453, AP001748, AP001630, AC007793, AC003682, AL031432, AC005229, AC011449, AC009196, AL031846, AL035461, AK022963, AC022150, AC006987, AC007276, AC007276, AC074010, and AC074010.
HBJHS92	237	663625	1 - 1871	15 - 1885	BF439821, AL022725, AL022725, and AL022725.
HBJHT01	238	587262	1 - 1237	15 - 1251	AW572853, AW852662, AW794904, AW852694, AA494184, BE092308, AW467441, BG000611, BF871414, BF871418, AA715850, AW962959, AI281561, BF899671, AI537814, BF899672, BF970033, BF899670, AW975902, BF847493, AW197990, AC008403, AC002551, AP001692, AL450224, AL022476, AL049762, AC011811, AL137039, AL356020, AC007842, AC007055, AC008569, AC005803, AB020865, AL353574, AL138836, AJ277546, Z93930, AC005484, AC007619, L44140, AL158040, Z95115, AF196779, AC009155, AC005548, AL354696, AC005254, AC007371, AL049780, AC000353, AL022336, AL158830, AC005488, AC007954, AL031664, AC000025, AL121586, AC004859, AL049757, AC007011, AL353812, AL157877, AL021391, Y10196, AF001549, U91323, AL096701, AP000501, AC008745, AC006930, AF053356, AL133174, AL137918, AP001715, AC027319, AL110115, AC010083, AC084239, AC005768, AL121675, AC006014, AC005562, AC002470, AC004223, AC026431, AC002457, AC008873, AL159977, AC002066, AC011497, AL031658, AL023553, AC008567, AL160234, AC005899,

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HBJHT01	239	580026	1 - 1238	15 - 1252	AW572853, AW852662, AW794904, AW852694, AA494184, BE092308, AW467441, BG000611, BF871414, BF871418, AA715850, AW962959, AI281561, BF899671, AI537814, BF899672, BF970033, BF899670, AW975902, BF847493, AW197990, AC008403, AC002551, AP001692, AL450224, AL022476, AB020865, AL049762, AC011811, AL137039, AL356020, AC007842, AL354696, AC005803, AC007055, AC008569, AL353574, AL138836, AJ277546, L44140, Z93930, AC005484, AC007619, AL158040, AC009155, Z95115, AF196779, AC005548, AC005254, AC000353, AC007371, AL049780, AL022336, AF001549, AC005488, AL158830, AC000025, AC007954, AL121586, AL031664, AF053356, AC004859, AL049757, AC007011, AL353812, AC006930, AC026431, AL157877, AL021391, Y10196, U91323, AL096701, AP000501, AL121675, AL133174, AC008626, AC008745, AC005768, AL137918, AP001715, AC027319, AL110115, AC010267, AC010083, AC084239, AC008567, AC006014, AL023553, AC005562, AC002470, AC004223, AC002457, AC008873, AL159977, AC002066, AC011497, AL031658, AF111168, AL160234, AC005052, AC005899, AL031650, AL049611, and AC007308.
HBJHW06	240	724943	1 - 1242	15 - 1256	AV722306, and BF772259.
HBJIR14	241	793391	1 - 2844	15 - 2858	AL531941, BE730712, AI027524, AU141658, AU132222, AL531942, BE563705, BF792946, BG034848, BF346317, AU122062, BG167881, BG108207, BF970602, BF530386, BE908883, BG030291, BF035675, BF971353, AA845421, BE547283, BF306507, BE871639, BF203239, BF528059, BE905493, BE304617, AI149519, BF980660, BE783616, BF035532, BF816131, BG166514, BE542614, AI979044, AI074917, AU153799, BE620051, AW957388, AI936452, N30633, AI095613, AI932392, AI991324, AI138900, N32921, AL529706, AW006025, BE544096, AV724811, AU160300, AA305212, BE884253, BE501620, AA311976, AA838707, AU143167, AV724817, BG230739, AW958522, N21623, AI300943, AI033742, BE622891, BE897732, N54305, N99586, BE907619, AW854921, AI280694, AA445998, BF445345, AA689604, AI215138, AW664139, BE159181, AA652752, BG118683, N28862, AI884708, BF222411, BG006570, AU147751, BE537110, AW517498, AA748911, N27205, AW166829, AI342117, AA742994, AA843379, AA029157, AA257972, AI144478, AA446274, AA813285,

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HBJJA26	242	743181	1 - 1349	15 - 1363	AL445188, AC006129, AL049545, AC010876, AL136321, AC007068, AC005304, AP001065, AP001754, AL133402, AL034371, AC068139, AC021058, S65562, and AC074361.
HBJJX02	243	612069	1 - 710	15 - 724	AI823688, AI311883, BF915002, AL042756, AC010412, AF002223, AL121949, AC021876, AL121897, AL117336, AC009756, AC007263, AC005411, AF317635, AC064878, AL031281, AC005378,

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HBJLH78	244	839735	1 - 1085	15 - 1099	AV727190, AV727488, and AC027410.
HBJND04	245	837242	1 - 1689	15 - 1703	BF979796, AW000891, AI631971, AI565810, BF966934, BE897560, BG024901, AV706770, BF792032, BF966164, BE893740, BE744308, AW025213, BE880979, BF057175, BF979265, AI640553, BE293933, AW967089, AI631793, AW150347, BE223003, AI964068, AI889621, AI202187, AW300134, AI420725, AI631750, AI859413, AI421550, AI492458, AI830656, BF036595, AI824077, AA151649, AI674988, AA449304, AW769971, AA478767, AW613741, AI631123, BG026364, AI766069, BE313464, AI051366, AA526157, AA421840, AI149797, BF665262, AW444608, BF739849, BF115043, AW067801, AA640299, N70512, AW580307, AA644080, BF589881, BF059027, W16856, AA151730, W05526, AI339649, AI376380, BE463403, AW239546, R69093, AA449561, AA317639, AI337196, AI361086, AI825269, AI473395, AV659828, R54574, AI473262, AV659032, AA295499, AW079869, AA643644, H03631, T78111, Z44810, AW067870, R13710, AI796453, AI825749, R37847, AA369963, AI262640, AI522180, AW768552, AI767203, AA558703, AI016170, AI538140, AI273120, AW242952, BE092737, H10508, AA094226, AI799347, D79797, AA995841, AA935184, AA393994, BE092770, AW376232, AW376238, BF664614, AI762347, AA478886, AX042212, and AX042214.
HBJND57	246	612785	1 - 1106	15 - 1120	AW504975, AW504900, AI674174, AI583283, AI932493, AV739452, AI133297, AV763354, AW275510, AA493695, AA467750, AI345157, BF347791, BF347740, AW857802, AI687343, BE378770, BE253048, AI311927, AV710066, AV762098, AA467932, AI284640, BF677892, AV760777, AA580808, AV764578, AV760937, BG249643, AV745092, AW827120, AW193265, AI270117, AW168618, AV764307, AW020340, AW270343, AA634889, AW438643, AL046205, AI471887, AV703942, AW302903, AV734666, AV762139, BF337291, AA584167, AW235497, AA502860, AI872020, AW274349, AW303002, AL037040, BE782280, AW827130, AW872676, AV760774, AI754658, AW503398, AA531079, R43310, BF681649, AI358571, AA469451, AI933534, AI350211, AA828749, BF902055, BF681576, AV764241, AL046409,

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HBKDF66	247	827276	1 - 1818	15 - 1832	AW292121, AI497769, BF062341, BE894885, AC011480, Z99716, AC005060, AL049840, AC021999, AL445687, AC020754, AL031293, U91323, AC010271, AC006274, AL035400, AC013434, AC002365, AL035555, AL009172, AP001716, AP001728, AC010789, AC020917, AL118558, and AL118558.
HBKEA94	248	827277	1 - 1233	15 - 1247	BF576085, BF672897, F20277, AA256405, AI637712, N78730, AW964111, BF003114, AI276572, W16640, AA256299, F29046, F27684, F22521, F28192, AW080841, F26318, F36126, F32672, F26743, F31838, F25673, F35782, F21361, AI810671, AL044965, F29323, F27117, AA346132, F34952, F16774, AA346131, F30379, F29634, AI696233, AA725010, F24054, F26524, AW183104, F35440, F35136, F35527, F36117, AA919007, F26598, F26254, BF511833, F34318, BF693563, AI419440, AI688848, BF915316, AW161579, AI540674, BF827575, AW084097, AI537677, AI915295, BE788683, AW074459, BG254754, AI539260, AW058233, AA693331, AW268261, AW078729, AW129592, AI401697, BF854388, AI241901, AI860027, AI537643, AI744181, AV712722, BG032036, BE621472, BF814412, BE843239, AI696611, AL038605, AI918634, AL037043, AA848053, AI469516, AL036954, AA575874, BE877142, AV728855, BG029829, AA806719, BG112718, BF904180, AI446373, AA088789, AV746791, AI473451, AV736808, AW082532, AI718513, BF698359, BF812960, BE892572, BE905211, BF925370, AL120853, AI524654, AI081740, AV681885, BF572734, BE964506, AA464646, BF968533, BG163353, AW082623, AI589004, AV756703, AI678446, AW410302, AI582966, AV654624, AA070889, AW827289, AW007939, AI345415, BE966729, BG261310, AV684075, AI623941, BF797585, BF699668, AI345253, AI559863, BF796447, AI580208, AI345677, AI356139, AA807088, BG113299, AW163834, AL041331, AW105460, AW858254, AI310606, AI858827, AI249877, AI249946, AI926790, AI581139, AW059828, N63128, AA748343, AI611816, AI261589, AI349933, AI799540, AI273085, AA555145, BF032868, AI471909, BE910384, AI560833, AI679312, AI569367, AW079159, AW083168, AA761557, AL048323, AI589428, AL036652, AL046463, AI584159, AL048340, AI683559, BF911528, AI423198, AI635813, AI702433, AI539800, AW148478, AI538878, AI280607, AI687568, AA587590,

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HBKEE60	249	793788	1 - 607	15 - 621	AW265529, AW265538, AL137220, AL031785, AL133409, AC008166, AC009244, AL008713, AC008069, AC009541, AC083869, AL031054, AF130343, AL450305, AC010084, AL121959, AL135920, AL049743, AC006997, AC006840, AC020630, and AC016491.
HBKEI41	250	827278	1 - 852	15 - 866	BE298619, AI742370, AI951803, AI094102, F21858, AI091054, AI374599, F36653, AA993801, F34314, F26878, AI239603, F19543, AI039195, AI425024, AA182915, F32505, BF671086, F25446, AA970455, AA644519, F26950, T11964, AA181506, BE964512, BE963918, BE964767, AI890806, BE965432, BE891834, BE895765, BE965067, AI623736, AI440238, BF526561, AI858865, AI609593, BG168185, AI823670, AI538885, BE965355, AI589267, AV733105, BF814409, BE965724, AI251830, BF343174, BE613727, AI264741, BF904180, AI611348, AA568405, AI469516, AW083489, AW082600, AW183621, AW192375, BG255465, AW078767, AI560679, BE965121, BF038804, BE965481, AW079432, AI922365, BF798503, AW085667, AI445620, AI536574, BF814360, AI886022, BE964281, BE965281, BF814357, AI918408, AW411043, AI918554, AI423326, AI680467, BG107576, BE621256, BF921092, AA579232, AI421087, AW193134, BE731275, BE964962, AW084194, BE965186, BE875407, AV682067, AI872159, AI866887, AW795428, BF817926, BF910810, AI619781, AI866002, BF911528, BF910849, BE904051, AW583117, AI682968, AW021373, AL040459, AI312428, AI266558, AI493032, BE964986, AI918634, BE048004, AW935969, AL119836, AI624668, AI340519,

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HBMBD51	251	842176	1 - 3043	15 - 3057	Z78314, BE263879, BE266907, BF868805, AU140848, AA287173, AW504179, AW503223, BF849942, BF869668, T81745, BE843450, AW409026, BE744403, BF850653, AA065323, BE741896, BE778075, BF155291, AW409956, AU126061, AU128885, AV753500, BF979765, AL528463, BE544570, BE798211, AA065249, R98242, AI570791, AL514395, AI904953, AW376113, AA300819, BF689587, AU142300, BE795750, AA361962, BG113906, BF317486, BE886342, AI417052, T61453, AW502847, BF971887, AI656450, AI962266, AA065271, AW959158, BE389514, BE277293, AW503332, AW178929, BE277043, AW390410, AU138524, AA143080, AI678308, N89616, BF308243, AA224211, BF205035,

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HBMBD73	252	839564	1 - 5265	15 - 5279	AU130064, AU122495, BF342606, AU143201, BE789084, BG036578, AW381964, AW381972, BE907460, BG113427, BE738528, BE778824, AW381992, BF792264, AW381988, BE882254, AW579717, BE785641, AU135407, AI953700, BF239213, AW381963, AW393939, AW381975, BF349981, AA129773, AW579711, AW381982, AW381985, BF036502, BF940174, BE147911, BE883012, AI065026, AV652097, AW393941, AW381967, BF508591, AW579716, BF969914, AU137100, AW969104, AW393940, AW182944, AW362021, AW379020, BF969555, AW381989, AW390789, BG251235, AW390811, BF381645, AW378656, BG180227, BF970259, BF692396, AW379002, AA195999, AW578882, BF349980, AV705328, AI346928, BE882378, AI963488, AW166930, AI911264, AW182486, BE883254, AW370698, BE548265, BF349954, AI703111, BE148055, AW452785, AI654136, AA102563,

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HBMBE33	253	493916	1 - 917	15 - 931	AA845560, BF791539, AV732393, AW951281, AW071825, and AF217991.
HBMBM17	254	637518	1 - 1148	15 - 1162	AI890324, AV756491, AA524229, AA760655, AL042753, AV706945, BF725761, AW084445, AW237905, AW068596, AV762633, AI613389, AV760391, BF902572, BE252421, AV760389, AA916430, AV759149, AA488689, AI358333, AW963474, BE062159, AV759518, AI419337, BF868994, H07953, AV760560, AA502991, BE882869, AI251034, AI291439, AW855643, AI537995, AI130709, AV760466, BF915535, AI300054, AI814682, AW303098, AA489240, BE139139, AW301771, AI284092, BF337291, AW851816, AI361090, BE043997, AI362442, BF342223, AW148775, AI962030, AA411849, AC006285, AL021393, AL133289, AC023880, AL450226, AL391839, AC002369, AL031767, Z82206, AP000547, AL450224, Z99755, AL137039, AC005089, AL354720, AC005399, AC008267, AL121574, AC004824, AC007465, AC005052, AL162724, AC004815, AC006322, AP000065, AC005225, AC011495, AC006539, AL109930, AP001688, AL356376, U91318, AC002549, AC025593, AC011497, AF038458, Z95331, Z82201, AC024561, AC002472, AC004966, AL020997, AC006994, AL137139, AC007383, AC004106, AC007597, AL021918, AC068799, Z84466, AF109907, AC010422, AC008699, Z73359, AC007993, AC004000, AC011442, AL137802, AF053356, AP001714, AL109935, AC005529, AC005476, U52111, AL122013, AC016025, AC025588, AC000025, AC005295, AC007263, AC004893, AC006028, AL137060, AC000086, AC005411, U89335, AC004552, AL109984, AL109753, AC083866, AC004491, AL499629, AC027644, AC004167, AC007406, AC002350, AF051976, AF196779, AP000344, D88270, AC005011, AC006449, AC005363,

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HBMCL59	255	608668	1 - 793	15 - 807	AI554296, AI220618, AL045943, AI016828, AC073898, AC011484, AC004134, AC021458, AC021458, AC021458, AP002455, AP002455, and AP002455.
HBMCM96	256	821318	1 - 2270	15 - 2284	AL042626, BG013983, BG029528, AW408756, T06598, W96522, AA315361, AI348780, BE315483, BF870708, U91318, AL096791, AC068799, AP001724, AL137139, AL365367, AB017653, AL163209, AC007963, AL162615, AC005846, AC005234, AP001715, AC010203, AC018639, AL163301, AF196969, AC007620, AL050335, AL035695, AC005972, AL355499, AC005701, AC002045, AC007739, AP000493, AC007690, AC008155, Z83826, AC018797, AC011455, AP000688, AC005244, AC006576, AP000107, AL022163, AL138828, AL121578, AL031311, AC006536, AC005078, AC006111, AC002543, AL035420, Z97054, AC005304, AF224669, AJ006997, AC004817, AC002527, AP000044,

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HBMCQ74	257	856461	1 - 4029	15 - 4043	BE748853, BE739497, AV717079, AW966911, BG031304, BF970551, BG257314, BG260738, BF035418, AW967532, BG170769, AV725834, BE882544, BG114010, AW967997, AV725306, AW961735, BE889840, BF917737, BG169707, AV707782, BG249444, BG165273, BF671676, BE888888, BG036845, BF245437, BE748262, AW193689, BG256230, AV658432, AW963689, AI890564, BF575329, AV703114, BF512200, BE885637, AV725214, BF574322, BG169220, BF207749, AW022949, BE567009, BG248901, AV725506, BF701206, BF790641, BF694123, BG169109, BG169797, N31913, BF382782, AW364771, AI768379, AW188047, BF575422, BE566229, AA058763, BE870264, BE894717, AI127301, BG178051, BF132983, BG253653, AW959283, AW058616, AA044759, W61027, AV715014, AA534631, AI446741, BF673008, BF940136, AV755669, AW009567, AI700955, AW474442, AA131516, BE739232, AW298345, AI675443, AI089245, AW235538, AW842648, BF790715, N24245, AI087348, BF215091, N20943, BF208572, BF109734, AW298784, N24739, BF029055, AW152450, AI088458, AA009580, AA946818, AI373559, AI708128, AA405782, AI335731, AI494155, AI284451, AA551214, AW501069, AI373932, AW079066, AI095814, AA024880, AW474110, BE568176, AI735417, N27812, AI680232, BF693989, AA043706, W19517, AA912150, AW503575, AI335719, AI863012, BE350574, AA975391, H97905, AW192691, AW131326, AW511021, BF239123, AI474108, BF132643, BF476664, AA121932, BE221248, AI978647, AI038337, AA829529, AI219954, AI444995, N90798, BF445250, AI494091, BF665239, AI953541, AI049953, AI831608, AI374656, AA969206, AI668792, AA043707, AI625592, AI589388, AI269869, R71361, W42585, AW337966, AW080027, N20065, AA564419, AA236045, AW090269, AI800738, BF575019, AW661836, AW058462, AA056622, AA027016, BF477608, AI049664, AA405717, AI817472, AI032596, BE865810, AA602636, AA830195, AA057198, AA913043, AA806013, D82668, AW469000, AI813272, AA181911, AA825687, BG169178, BF241808, AA045660, AA806407, BF671972, AI214550, AV727254, AW338399, AA804875, AA262821, BF809809, AA009581, AI636741, AW874100, AI082671, AI985666, BE184401, R71441, AI208195,

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HBMCQ74	258	864382	1 - 4030	15 - 4044	BE748853, BE739497, AV717079, AW966911, BG031304, BF970551, BG257314, BG260738, BF035418, BG170769, AV725834, BE882544, AW967532, AW967997, AV725306, AW961735, BG114010, BE889840, BF917737, BG169707, AV707782, BG165273, BF671676, BE888888, BG249444, BG036845, BF245437, BE748262, BG256230, AV658432, AW963689, AI890564, AW193689, BF575329, AV703114, BF512200, BE885637, AV725214, BF574322, BG169220, BF207749, AW022949, BE567009, BG248901, AV725506, BF701206, BF790641, BF694123, BG169109, BG169797, N31913, BF382782, AW364771, AI768379, BF575422, BE566229, AA058763, BE894717, AW188047, AI127301, BG178051, BF132983, BE870264, BG253653, AW959283, AW058616, AA044759, W61027, AV715014, AI446741, BF673008, AV755669, AA131516, BE739232, AA534631, AW298345, AI089245, BF940136, AW009567, AW842648, BF790715, AI700955, AW474442, N24245, BF215091, BF208572, AI675443, AW298784, AW235538, BF029055, AW152450, AA009580, AI373559, AA405782, AI494155, N20943, AI284451, AI087348, AW501069, AI373932, AW079066, AI095814, BF109734, N24739, AA024880, AI088458, BE568176, N27812, AI680232, AA946818, AI708128, AI335731, BF693989, AW474110, W19517, AA551214, AA912150, AW503575, AI335719, AA043706, AI735417, AW511021, R71361, BF239123, AI474108, BF132643, AA121932, AA829529, AI863012, H97905, AI219954, BE350574, N90798, AA975391, BF665239, AW192691, AW131326, AA969206,

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HBMCT40	259	824053	1 - 697	15 - 711	AV656238, AI138612, AI084786, AA122281, AI857642, BE856746, AA576976, BE300994, AI814439, AW007758, AA614328, AA398266, AA705821, AW029132, AI222818, AI935132, BF037337, AW070541, AU148132, AI624257, AI582213, AI131062, AI694240, AW517068, N29984, AI820033, BF966056, AI360344, AI688349, AI435143, AI394500, BF795416, BF111964, AI860428, AI160318, AI582376, AI950515, BG236028, AW194430, AW264570, AI879588, AA643227, AI813910, AI754189, AI869669, AI500411, AW194445, AI952259, AW008344, AI351136, BF690320, AI497687, AA991796, BF438467, AI299383, N32745, AA434392, AI948642, AA477509, AA565934, AA428653, AI057169, R69038, AA878173, BE675270, AW780293, AA765797, AI016933, AW591234, T33461, R44093, AI690569, F24523, H94259, AA731192, H07102, AI868018, W80788, AI018508, AA758326, D12098, BE795735, AA804972,

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HBMDM08	260	837927	1 - 1099	15 - 1113	BE259531, BE903903, AV757184, BG141370, BF035245, BF975496, BE378404, AW157052, BE384205, BF670417, BE303033, BF038328, BE298023, BE302913, BF974533, BE783627, AW163018, BF026965, AV702382, AA987525, BF724795, N25803, BF211212, AA604887, AW958209, AI880532, AI601259, AI089984, AW957998, AA180806, BF185776, AA180963, AI815801, AA180860, BF939797, AA398674, AA864714, AI031642, AA278906, AV702862, AW583452, AA658952, AV707212, AA863377, AA633493, AI141506, AI126545, AA393320, AV748966, AA640281, AW583818, AA437198, AI022529, AA402724, AI200534, BE394751, AA846171, AW043945, AI032115, BE772759, AA757604, AA426386, N34190, N40925, T67791, AA040182, AI041768, AI082174, BE972562, AV758984, AI362125, AI741371, AA132547, AA446575, AI815498, BF916626, AW080847, BF792743, AA481007, BF968016, BE718780, AA040183, AW351842, AA148895, AA446702, N52848, BE327989, AI887556, AW351841, AI925487, AI309035, N46781, H39613, AV708248, AA468658, AA927545, AI222894, AV653963, AV764520, AI927388, AV741033, AI351169, AA512888, AA374237, AA171748,

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HBMSN62	261	787680	1 - 968	15 - 982	AW303421, AI744726, BG058609, BF674057, AI683213, AW293832, AI343356, AW008522, AI417082, AI085617, AW237393, AW879355, BE221453, AA650605, AI310740, AW075895, AA769704, AA983766, BE180113, AW071527, AW052012, AI708107, AI149598, W68262, W68261, AA889327, AA974986, AA402605, AI640639, BF431572, AA765574, AI522218, AW514666, AI352181, AI916010, BF512347, AA825838, AA974778, R33117, AA279931, AW957121, T03320, R63547, AI587243, R32932, AI784648, AW452303, AW166597, R33268, T94426, AI784290, C20564, BF590029, R32829, AA748754, R63502, D45619, AW058637, R42783, AI824252, T90550, BE843678, BE180426, AL513865, AC006445, AK025361, AL137652, AB037748, AC006445, and AC006445.
HBMSO30	262	843389	1 - 764	15 - 778	AV702427, AV725927, AV727932,

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HBMUJ48	266	580808	1 - 499	15 - 513	AC060812, and AC018803.
HBMUR39	267	647594	1 - 874	15 - 888	H68504, AC008745, AL109804, AC020904, AC005015, AL135927, AC007227, AL022163, AC009060, AL138807, AL031670, AC008403, AC008753, AC007597, AP000553, AF225899, AL109743, U47924,

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HBMVF65	268	609348	1 - 1050	15 - 1064	AA581409, AW972347, AI086335, AW903747, AA608689, AW903751, AI863767, AI038731, AI863777, AA879017, AA523051, AI791303, AI821263, AL163279, Z56575, AF129408, AF129408, AF129408, AC019326, and AC019326.
HBMVF65	269	847789	1 - 1268	15 - 1282	AA608689, AA581409, AW972347, AI086335, AW903747, AI038731, AW903751, AI863767, AI863777, AA879017, AA523051, AI791303, AI821263, AW797332, AL163279, Z56575, AF129408, AF129408, and AF129408.
HBMWC39	270	523713	1 - 1140	15 - 1154	AL118991, BF681619, AV762982, AI040051, BE019467, AI284640, BE294700, BE139267, AA669840, AW963565, AW328202, AW407578, BF915247, AV759557, AI457397, AI623764, AW971243, BF678990, AW021917, AV762741, AV758790, AI334443, AW979096, BF915722, BG059314, AV682003, AV761714, AL046409, AV762979, AV735495, AV761862, AW970877, AW327624, AI821714, AI792133, AI791913, AA653139, AU145055, AA829065, AW438542, AA297145, AA631507, AI205181, AW191886, AW419262, AV764307, BF725318, AI821785, F36273, BG169377, AI090334, AV758903, AI963720, BF915628, AW193265, AI431303, AV762033, AI305766, BF984807, AA708678, AI306028, AV764340, AW969743, AV726332, AI244356, AL041706, AI350211, BF941382, BF149121, AA613203, AW275719, AI754253, AV764259, AA483606, BG249643, BF925233, AA502991, AV760937, AL079645, AI270476, AI561060, AU131834, AI753488, AA570740, AV761810, AI745325, AU144320, AW103030, AI613280, AL359076, AL158040, AL035422, AL357752, AL022476, AC006487, AC002073, AC007969, AL024498, AC002553, AC002563, AC004859, Z85987, AC000026, AC002059, AC005324, AC018738, AC007271, AC005874, AF134471, AC007671, AJ277557, U78027, AL136418, Z83840, AC005037, AC024563, AC008560, AC004797, AC027319, AL133163, AL079335, AC005726, AL445483, AL136124, AF196779, AC011462, AC005038, AC002464, AC015971, AF067844, AC005399, AL033383, AL133246, AC006071, D87675, AL034553, AL031005, AC004832, AL080243, AC005899, AL356020, Z97985, AC009756, AL138836, AL096800, AL050335, AC008083, AC004648, AC005940, AL136179, AL162580, AL050317, AF015148, AC008753, AC004526, AL078581, AC006006,

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HBMWJ92	271	701971	1 - 1796	15 - 1810	AA079274, AA079292, BG057574, BG152940, AC009518, AC008085, AL163249, AL158033, AL442166, AL163284, AC005014, AP000170, AP001720, AC005736, AC008806, AP001697, AC006348, AC005482, AL355537, AL080239, AP000330, AL035666, AP001598, AP000124, AL357120,

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HBMWS52	272	872553	1 - 1331	15 - 1345	AA515728, AV762633, AL079734, AW958962, AI754170, AI284543, BE139139, AI250552, AA602906, AW275432, AI251284, AI251034, AI251203, AI962030, AA503298, AI254770, AW274350, AV763457, AI223626, AW069412, AL038842, BF854308, T11828, AW151541, AI279417, AV759632, AI635440, AV763026, AV763058, AI801505, BE138387, AW575605, AI521525, AA584489, AW865946, BF725844, AW851405, AI469599, BG059972, AI345827, BE063437, AW268757, AW268954, BF725884, AI349817, AI040051, AA644090, AA630854, AI754653, AA508036, AI923451, BE143603, BF681619, AI635028, AU118374, AW272294, AA225406, AL135377, AI755214, AI537020, AV703785, AW500684, AL524675, AI891080, AI754567, AA916430, AA714011, AW972919, AI625604, AA527602, BF212465, BE062478, AW408767, AW500029, BG236628, BF771774, AW023111, AW591754, BE150796, BF978936, AI589230, AV742175, AI754105, AV757289, AI282479, AA659333, AW576251, AW816516, BF965775, AW265393, AI499954, AA833875, AA833896, AI085242, BF184128, BF726693, BF944736, AV758790, AI133514, AI926102, AI249853, AI254779, AW873261, AV763550, AI654738, AW970064, AA568314, AI732151, AA652834, BF724372, BE062476, AI923458, BE883977, AW157731, AI708009, BF817546, AV704467, BE250197, AW190484, AI754066, AA169245, AI753672, AL121385, T06598, AA713705, AA536040, AV706448, AC008925, AF095901, AL022329, AL133480, AC005057, AC008897, U62293, AL138713, AC005236, AC005940, AC005215, AC007030, AC004526, AC005043, AC004033, AC008543, AC005011, AC011445, AC005037, AC006312, AC005094, AL022324, AC005763, AL121675, AC004383, AC004659, AC006141, AC009244, AC004883, AL109804, AL033528, AL050349, AP001714, AL136303, AL035417, AP000032, AC003014, AL359694, AC011742, AC005080, AC005410, AP001631, AC006581, AL031943, AL445687, AC010582, AC008752, AL117350, AC007383, AL049539, AL022316, AC009228, AC024075, AL035427, AC008015, AC005098, AC007956, AL050335, AC002470, AP001748, AL132639, AP001715, AP000103, AF075098, AL022476, AC004027, AL109824, AC008569, AC005030, AL049697, AC006252, AL117186, AC005200, AP001746, AC005291, AC006088, Z83847, AC027319, AC004020, AP000269, AC011497, AC011450, AP001711, AC005736, AP001725, AC010489,

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HBMXE34	273	834497	1 - 1817	15 - 1831	AL527280, BE179268, BF034686, BF002287, BE536486, AA218919, BG261364, BE612994, AU157519, AA811413, AI089945, BE858632, AU158525, AA393861, AI828461, AA393827, AA731882, BF666030, AI888229, AI811471, BF431222, BF215883, AA631810, AI346548, BE537488, AI091301, AA290859, AW957240, BF725094, W26029, AI769614, W03038, AI337441, AW973653, AW264798, AA397927, N24806, BF880308, BF478027, H98108, AI560121, AI143915, W26949, BG114099, AI346151, AU138215, BE815321, BE709840, C17037, AA879124, AI340131, AI695190, AI538208, AW188745, AI668931,

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HBMXG01	274	689522	1 - 1125	15 - 1139	AW500029, AI358384, AV759632, AW327624, AU152561, AW575605, AW020088, AW190505, AA631497, AA634837, AA228349, AL037910, AI590485, AW975095, BE160591, AA572813, AA704393, AI669589, AV760918, AW972963, BF944940, AA669647, AW574976, AC005746, AP000065, AC008745, AL132713, AC018514, AL353748, AL022721, AC012005, AP001745, AC004491, AC068799, AC007030, AC008569, AL109758, AC005529, AL445263, AC004186, AC027319, AC016025, AB023054, AL034420, AC002430, Z84469, AC007384, AP000517, AP000501, AL031655, AC008403, AP001705, U52111, AC005913, AC005971, AL031685, AC005037, AL139087, AC005179, AL121653, AL035420, AL136137, AC008753, AC009953, AC004686, AL136300, AP001727, AF134726, AC008474, AL139123, AC004835, AC020916, Z93017, AC006483, AC005069, AL353804, AF190464, AC005726, AC004840, AL022397, AL049757, AC083863, AC005070, Z85986, AP001725, AC007114, AF111168, AC006064, AC006449, AF205588, AL034429, AL034417, AL121881, AL353140, AC008738, AF243527, AL050335, AC005211, AC025593, AL162505, AL050318, AC005391, AC006057, AC002301, AC020906, AL049539, AL133355, AL355385, AC004408, AL035461, AC008720, AL049829, AC007097, AL353653, AC015973, AC005668, AC009263, AC005841, AC004962, AC011455, AL109798, AL133551, AL079295, AC004520, AC004039, AL121754, Z99495, AC008543, AL355365, AL136295, AP000552, AC002546, AC005355, AC007314, AC005255, AC009803, AC011895, AC007842, AL139095, AC002119, AC006345, AF215937, AC004859, AC002350, AC006285, AL132777, AL354816, AP001626, AC004032, AP001630, AJ011930, AC005224, AL031289, AL163300, AC019014, AC010422, AL117382, AC000052, AL024507, AC005207, AL023575, AC005049, AC005722, AL157938, AL133448, AL133244,

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HBMXG76	275	580812	1 - 604	15 - 618	AW469166, AI568694, AA486949, AL133623, X91617, D88026, AC023508, and AC023508.
HBMXM05	276	842283	1 - 1107	15 - 1121	AI051244, BE080507, T77860, T85718, T90815, T77360, T77055, T86993, AA759263, AU129822, AU129210, BE382611, AU132952, AU143680, AU125010, BE797845, BF311661, BE263248, BF314598, AW239318, AL523230, BE382817, BF542104, BE088607, BG164869, BF672510, AF064478, AB015355, AF046997, AF064484, AB004857, AF153280, AF153279, L37347, AC023648, and AC023648.
HBMXW83	277	725335	1 - 1219	15 - 1233	BF439044, AI861923, AI760976, AW172961, AW380987, AA989375, AI832889, AI754682, AI591154, AI955740, BF061355, AI360595, AA912755, AI075414, AA723957, AI453765, AL048509, AI800503, BF679519, AV690773, AI417890, AA740523, AV687370, AI073631, AA701615, AI690073, AI014488, BF027894, BF149272, AA828026, AI538813, T29227, AA677808, BE564932, AL121379, H93053, BF110314, AA418788, BF214938, AW792901, AI865369, AW792803, AV659812, BE896240, BF858900, BE000013, BE564874, BE149797, BF839648, BE568241, AW379771, AA010005, AV658482, BG107452, AL033397, M90656, U85498, J05181, AR005022, and U85414.
HBNAE74	278	637524	1 - 412	15 - 426	AA700850, AI652493, AA195061, AI829078, AA401470, N98317, BF928398, N70140, AL049795, AL049795, AL049795, AC022307, AC022307, AL121991, and AL121991.
HBNAX16	279	843727	1 - 3230	15 - 3244	AL523259, AU125719, AL523258, BE795590, BE795814, BE795317, AL043102, BG112721, AU125792, AU136086, BE742689, BF569391, BF316814, BF664322, BE907570, AU131690, BF311863, BF309140, BE262674, BE798174, BE296057, BF683515, BG032478, BF311452,

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HBNAZ35	280	840687	1 - 880	15 - 894	BF508836, BF436866, AI240553, AI658964, AW298386, AW070989, AI969920, AA570545, BE205930, AA884223, AA555330, AW964492, AA319434, AA176296, BE815349, AC009555, AC009555, AC012300, AC012300, and AC010538.
HBODK40	281	852382	1 - 1764	15 - 1778	AL520924, AU118752, AL524864, AW957754, N58127, BF087903, AI970999, BE207510, AA805508, AA543049, AI224173, AA481100, AW086144, AW970499, N52797, AU145242, N49240, AW439223, H22748, AA480173, H18549, W87476, AA481045, AI702077, AI208249, AA968423, AA676568, AW957756, AI339421, BF841324, BE350713, AA551673, H61729, AA354107, H90630, H18441, H90534, BE747814, AA203228, Z41571, BE825526, AA948533, AI990383, AL524865, H24029, BF082936, AW945283, H61939, AW945334, BF082937, AL134264, BE242723, AL526441, AW075792, AW873749, BF333412, AI270746, W87571, AL520925, BF941562, AA002111, BF746839, AA002112, AA682938, BE825410, AW072594, N57619, AA977512, BE049263, BE277393, Z45954, AW466875, AF092094, AF155157, AK001045, AL137856, AL137856, and AL365321.
HBODV76	282	866420	1 - 2484	15 - 2498	AU120941, AU121012, AU120592, AU120417, BE250269, AI126808, BF695058, BF671906, BF672129, BF671000, BF671449, AW579877, BF576332, BF670252, BF305501, BF574301, BF791231, BF574798, BF672754, AA418414, AW960122, BF790531, BE156553, BF671961, BF575411, BF670857, AW579872, BF791312, BF671769, BF671792, BF790835, BF671456, BF790846, BF672675, BF693805, AA192617, BE156566, BF671448, BF695105, BF670273, BF575478, BF672161, BF790545, BF693774, AA418529, BF693658, AA214096, BF672511, BF790297, BF693831, BF576965, BF695389, BF791322, BF671580, BF575312, BF575289, BF577330, BF575066, AA213904, BF576286, BF126096, BF694591, BF790347, AA194412, BE299317, AA195847, BF694759, BF693028, BF126241, BF574925, AA196024, BF671036, BF575248, BF670307, BF694763, AA193197, AI279034, BF574536, AI143596, AA010690, BF671410, BF694979, BF671521, BF695014, BF790293, AI144214, BF575347, AI367745, BF790821, BE156567, AI273691, AA774620, AI288558, BF671111, BF671611, AA211554, AI972216, AA393798, BE670052, AA699389, AA194290, AI668950, AI131111, AI908527, AA653726, F36637, AW022216, AA706028, AA482795, BE156689, BF576244, AA513960, AA393742, AA010691, AA086230, BF695199, W76626,

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HBPAD89	283	637525	1 - 181	15 - 195	AC011123, AP001460, AP001460, AP001562, and AP001562.
HBPAF39	284	850786	1 - 1248	15 - 1262	AA630293, AV763026, AV763058, AA284247, H58354, AW500684, AI554471, BF809041, AA658375, AA176978, AA847499, AI908093, AV763540, AW971071, AV762633, AI805363, AA526343, AI754767, AW083934, H24331, AA226584, H05066, AW963444, AV742957, AI799607, AP001711, U95740, AC004971, AL121891, AC021016, AC005037, AC008403, AL136300, AC007051, AP000555, AC007011, AC007919, AC003007, AL023879, AL133448, AC006312, AL163249, AC005529, AC004645, AL121751, AC009756, AC006130, AC008760, AC018663, AC007151, AC006146, AC005995, AJ009611, AP000134, AP000212, AC005318, AC003982, AC004858, AC006111, AL035079, AL022323, AP001747, AC005736, AC010605, AP001627, AL122015, AL158040, AC011462, AC008812, AC010789, AL031680, AC004526, AC004867, AL132713, AC004491, AC002492, AC005098, AC005089, AF109907, AC011442, M85145, AC006483, Z85987, AC006241, AP001725, AP000359, AC004965, AC006441, AC010412, AC018738, AC010618, AC004821, AL121890, AF111168, AC005236, AC005046, AC004611, AC018758, AP000049, AL050349, AC000120, Z97056, AC005522, AL096701, AC005000, AB017602, AC004896, AC005332, AC002531, AP000295, AJ400877, AC083863, AC006946, AB023048,

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HBQAC45	285	723505	1 - 1357	15 - 1371	AL078463, AL078463, AL078463, AL078463, AL357493, AL357493, AL357493, AL109844, AL109844, and AL109844.
HBQAC72	286	799512	1 - 2331	15 - 2345	AW170533, AU137084, AW998874, AW998771, AW872676, AA516047, AW872575, N70448, N69125, BE061259, AA714110, AI082622, AI345695, N70447, AA767971, AI865897, BF770689, AW338508, AI633168, AI571161, H11612, AA741011, AA179944, BE263340, BE089717, N91711, BE907155, BG181040, BF667616, BE874651, AV762393, X56465, Z82216, AC003001, X61715, AC002404, AC006112, AC011451, AC006130, AJ009611, AC009194, AC008733,

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HBQAE37	287	637526	1 - 1001	15 - 1015	AI124003, AI445187, AA897328, AA737532, AW627549, AI190742, AW207586, AI872294, AW451406, AI122873, AI253794, D19777, N50786, BE551531, AI419921, AV682285, AW102731, AI540516, AA598571, AW665998, AW068887, AA993676, AI355364, AI799473, BF434811, AU155480, AA334830, BF593134, AW594696, AA603695, AW057857, AW468023, AA598664, BF194841, AA961774, AU155153, AI031659, AW195605, AI510700, AW965500, AW958137, AV744496, BE535697, H04784, AI758241, AA766363, R69607, AW075561, AL135745, and AC018472.
HBSAJ63	288	848683	1 - 1694	15 - 1708	BG260679, BE744499, BE791844, BE799404, BF341229, BF340249, BG033558, BE563298, BF128559, BF528636, BF792775, BF526027, AL520325, BG118406, Z78324, BG120791, BG252616, AW997217, AA573951, AW378545, BE884919, BE267489, AW161658, BG058810, AL120658, BF954742, BE512690, AW673944, AW953507, AA479588, AW250895, BE545107, BE899050, AI384065, AW250140, BF954739, AA777294, AW410340, BE727160, AI955759, BG057374, AW579652, AA812736, AA514652, AI140280, AA522793, AA889483, BE727788, AW378626, BE299671, AW273718, AA595719, AW378630, AI189202, AA888064, H17214, AA643992, AW675106, AI375020, AW163090, AW157575, BE787232, AI308921, AW074078, AI688905, AI989412, BF876474, AI816518, AA214547, AI751405, AI984530, AA578553, AW152123, W90602, BF830769, AI086778, AI564028, AI814124, AI277623, AI000764, BF943828, AW167325, BE791996, AI591307, AA428453, BF839950, AA479881, AI305195, AV726467, AA448198, BF839936, AA351741, AI197967, W90279, AI186150, N38977, BF926156, AV725693,

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HBSAJ63	289	835454	1 - 526	15 - 540	BG058810, AW250895, AW673944, AI384065, AW161658, AA573951, AW410340, AA777294, AI955759, AA889483, BG057374, AI140280, AA514652, AA522793, AA888064, AI308921, AA812736, AW378545, AI189202, AA595719, AA643992, AI688905, AI375020, AW157575, AI751405, AW163090, AW074078, W90602, AW579652, AI989412, AW152123, AA578553, AI984530, AI816518, BF792775, AA214547, N38977, AI086778, AW167325, AI564028, AI814124, AI277623, AI591307, AL520325, BF839950, AV726467, AI498860,

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HBSDD24	290	839802	1 - 1480	15 - 1494	AW370493, AW298245, AI954739, AW026312, BF000082, AA923304, AI660828, BE938514, AI493723, AA641666, AA502611, AI540196, AI436565, AI817852, AA039704, AW058671, AW304317, AI128059, AA740469, AI189995, AI041255, W65295, BF688986, AI026922, AA443840, AA831862, AI952042, AW370556, AI669862, BE856167, AI206467, AI244961, AI356276, AI376919, AI475488, AU155552, BF446119, AI831204, AI015178, BE739589, AI831213, BG165967, AI301359, AI707965, AA721617, T17379, T74062, AA452800, BF919626, AI146728, R21538, BF592004, AA281320, R86831, AA058760, AW440523, T90016, AA551944, AA336207, N89584, AI198746, T90113, BF879439, AA053240, N41034, AI431987, AI658607, AI867342, AA452936, BF001302, F12441, AI056728, BF924340, BF924505, BE905733, BF931287, AA984822, AW068407, AA918334, AA706016, C02143, AW904410, AA947728, BG164347, AI612974, F10063, AA026963, BF919629, BF925739, AA446627, N59584, W65393, AA280078, AI694016, BF725735, AI932841, BE910617, AL532144, BF223553, AA837231, AW956434, BF919249, W22072, BE410198, BE185031, BF688595, AW966809,

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HBWBD25	291	800765	1 - 1490	15 - 1504	AI368804, N74612, AA630469, R18135, R18136, AV656321, BF833015, AW896339, BE709787, AC000385, AB007953, AC004924, AC005326, and AC027341.
HBXAS93	292	836513	1 - 1745	15 - 1759	BF742127, BG028665, BF982222, BE386554, BF901469, BE067011, BE545345, AW273350, AI671077, AF111173, AF100172, AC007050, AC005412, AL034380, AL136418, AL133448, AC005520, AC010412, AP000359, AF053356, AC007537, AC005280, AC006538, AC007308, AP001752, AC010205, AC004876, AC004805, AC011310, AP000045, AP000113, AL354720, AJ251973, AL117344, AF168787, AF200465, AC008745, AL161936, AL137074, AC011489, AC018637, AL096701, AC005746, AL035458, AC009116, AC011465, AC009756, AC002565, AC004152, AL355392, AL110115, AL035086, AC008044, AP001630, AC004816, AP001717, AC006111, AL355984, Z84480, AC005015, AP000305, AP000504, AL121753, AC005098, AC008753, AC005225, AL035587, AC020904, AC009477, AC021016, AL162584, AC005399, AP000501, AL132713, AC006330, AC010311, AC005756, AP000354, AP000352, AC002400, AC011475, AF109907, AC008543, AP000300, AC006241, AC004166, Z97054, AL136300, AC011452, Z81308, AP001748, AF243527, AC004858, AC005102, AC008040, AE000658, L78833, AL035071, AL353701, AC005331, AP000115, AL031121, AP000047, AC005086, AC007619, AC004867, AP001053, AC006948, AC007686, AC007366, AC005578, Z99716, AL049840, AC007666, AC010358, AL356379, AC005972, AC009087, AL021939, AL109976, AC004826, AC004638, AL022324, AC004089, AC007055, AC010677, AC007383, AC006130, AC008687, AL050335, AC007216, AF129756, AC009600, AL049758, AC004383, AL133245, AC011455, AL031311, AC009953, AL031680, AC006449, AL137818, AC005103, AF001548, AC005726, AL031432, AC011490, AC024075, AC004148, AF196779, AL133551, AC005277, AC004491, AC005057, AF196969, AL162615, AC008569, AP001714, U47924, AC004887, Z98950, AC004967,

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HBXAT27	293	815571	1 - 2392	15 - 2406	BE794308, BF508826, BG258199, BG258937, BG176669, BE781784, BF968241, BG024971, BF034651, BF238182, BE785732, BE743443, BG028860, BF315161, BE083110, BE269219, BG256743, AW131550, AI826692, BE263007, AW131834, BF337515, BE257334, BE903515, AL110387, AI797239, AW953315, BF813788, AW027065, AA701674, BE169139, AI885586, BE257254, AI949831, AA399326, BG256846, AI061443, BF813140, BF960773, AI524069, AI263277, AI912870, AA098955, AW519099, BF127648, AA460587, BE090583, AI143583, AL119187, AW304467, BF678334, BF210234, AW027064, AA516118, AI250835, BE782771, BE884824, AA954164, AA886390, AI679587, AI088740, AW629262, T33648, AW663638, W69506, BE063281, W69628, AV659863, BF904966, AA770250, W28390, AW388040, AA461514, AW090322, AA111893, AA024541, AI240787, AA024542, W28214, AA490728, BF205992, AW407875, AA172279, R88050, AA954203, AA563892, AI248710, R81028, AA912237, AW518226, AA497010, AA085564, AA491219, BG112802, AA741413, AI950487, D11607, AA978268, D53527, BE885225, D11591, F07214, BE044020, T31534, T32424, R88873, BE872589, AA877513, AA680255, AA085693, R00252, T33647, D53531, AA173246, AA312385, H15801, H71528, AA356261, AI280596, BE041310, BG168713, M78805, AI245658, AA356994, BF576534, R88984, AA333609, AV705274, AA249353, R92997, AA613363, H90510, AA361057, AI807716, AA988044, T35518, R88812, AW503111, AA398333, AA368084, R80822, AA360632, D54086, AA361285, AA345472, BG171212, H90606, AA090145, R40811, AA489592, D54201, R89532, N55685, AW387907, AA330326, AI870083, AW387910, T34206, R87999, AI014770, AA343953, AI446398, D55595, R93038, AA173255, BE179101, BE970006, AA679638, AA176988, D54495, BF754913, BF816058, AW081060, BE167956, BE252211, R00362, D52880, AI630022, BE167921, BF886986, AA416480, BE769838, BE222887, AA403203, AI287684, BE268955, F09373, AI203910, BG180771, AA044287, AA151108, T05574, AA831470, AI884358, AC007845, AC016025, AC016026, and AL356307.
HBXAW57	294	815650	1 - 1363	15 - 1377	T03467, AP001751, AP001046, AL035249, AL133240, and AC068059.

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HBXBI29	295	847000	1 - 2029	15 - 2043	AW450345, BF059281, AI652060, AI028301, AI341171, AI148944, AI932320, AI222080, AI018400, AA911242, AI214979, AI917686, AW881598, AI187962, AW938013, AW468183, BF818066, AU146183, AW965370, BF131289, BF743384, AW004962, BE382352, BF026808, AL031121, AL163206, AL008629, AC001234, AL031728, AC005340, U91327, AC010519, AF249850, AL121875, Z99714, M64404, AC012147, AC005387, AC003009, AF027865, AC003694, AL161644, AC005215, AC000398, AC004104, AC010132, AL009179, AC007080, X66603, AL050331, AK024585, AL049861, AC005953, AB042030, AL031073, AC002121, AC006330, AL158144, AC002402, AC005955, AC005615, AF109719, AC002401, AL356750, AL137220, M57283, U02391, AF249863, AK025061, AP002530, E15702, AC008641, AL162742, AF287263, AC005193, AJ277261, AL034429, AL050284, AF311103, U67418, AL356464, AC023905, AC007002, AC034242, U07183, AC004920, AL109804, AL445242, AK021937, U16984, U92882, AL135978, AC009307, AC084392, AL133355, M60322, AC058790, AF259750, AC009226, AC008064, AC008067, AP001697, AF213884, AF284823, AB051897, AC003957, U62328, AF016405, M88301, AB042197, AX027824, AF038537, AF093624, AC007405, AF055469, AC068999, AP001599, AL021879, AF026198, AC068906, AC006992, AB040879, AC034109, AF153354, AL118505, D85183, AF120480, AL139186, D10727, Z93022, Z99297, Z84720, AL136230, AC000400, AC008997, AL359853, and AC026028.
HBXBM24	296	823353	1 - 699	15 - 713	AI939532, AI356205, and AL515339.
HBXBM78	297	812527	1 - 2777	15 - 2791	BE388876, AV722966, AV760983, AV762946, AV762161, BF185935, BF108823, AV759946, AV761323, BF064074, BF689470, BF001385, AL046433, BE349503, BF690404, AI819289, AI090048, AW305162, AI857825, AA551911, AI963412, W04340, N90883, AI970338, AI652494, BG055077, AA502649, AI200346, AA158746, AW083258, AI348109, BE551410, AV763075, AA150467, F29360, F21409, BF436259, AA040295, AI831018, W16820, AA514281, W79500, T67539, W79599, R86673, AA807108, BE502539, BF344822, F25102, F36686, AI351521, AI961780, AA609867, AW206720, AA056972, F24355, BE164504, BF917215, AA311166, AA513661, F30483, AI805040, AI349360, AA532766, AW590360, AI962009, BG236085, T64334, AI720757, AI832241, AI817647, BE140360, AI400242, R86847, BF741663, AI383420, T65686, N74174, N92928, AA584402, AW138172, BE170117,

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HBXCD59	298	860439	1 - 2003	15 - 2017	BF531033, BF528171, AW950918, AI870415, BF340451, AI360233, AI038686, AA779580, BF338970, AV724360, AA682963, R24329, BE767216, T05265, BE767190, AA350513, R24342, Z43109, H11777, Z45111, Z42002, BG030716, R20097, R17120, N54121, H00149, AA774883, BF921123, AW370555, T06869, AA247964, H58760, N88601, N83168, N88782, N84855, AA095359, N83992, N89520, AA096046, N84048, N83991, AA247827, AA095641, AA096066, N84718, N83993, N86694, N84830, N55698, AA089553, N84712, N88518, AA471338, N84829, N87989, N87898, D87458, AX045769, AX026540, U48696, AF102850, AF045432, AF103726, S78798, AR074144, U39066, AJ243486, AX026542, AF039698, AR066487, AR074136, X98248, AR074139, AX026543, AX026547, AX026552, AF032922, AX026545, AR083937, AX026539, AJ401268, and AX026550.
HBXCE43	299	809108	1 - 1259	15 - 1273	
HBXCG08	300	628501	1 - 1865	15 - 1879	BF305556, BE786667, BE747865, BE274735, BG120818, BE898240, BF858030, AI859770, BF858037, W29032, AW296741, AA489437, W47240, AA939281, W47124, R89672, BE300490, AW192057, R88686, BF313304, R89636, R85339, R88836, R85915, BE314762, AW992785, AW366367, U25912, AW992799, AW151870, AA513122, AC004671, AB029004, AC002350, AC016543, AL133245, AC004771, AL009181, AC009086, AL034429, AC006132, AC022073, AL445483, AC009756, AL121903, AP000501, AC007956, AC004922, AC005781, AC021016, AC004985, AC005899, AC010422, X70410, AL157938, AC020898, AC007404, AL450226, AF030876, AF031078, AC005921, AL137039, AC018751, AC007537, AC009516, X85545, AL118506, AC005317, AC006538, AC005255, AC004671, AC004671, and AC004671.
HBXCM52	301	799513	1 - 2506	15 - 2520	AU132633, AU119136, BE799425, BE780992, BE793190, BF217040, AA779588, BG028776, AA199859, AA779718, AA664343, AI751072, AU152580, AW962822, AA633737, AA355825, R20381, Z42654, F08207, F02149, AI609972, AW500029, AI732151, AA199929, AW779609, BF681619, AW270768, AW819125, AW069227, AI291037, BF946053, AW237905, AW271917, AA504818, AW468372, AW572721, BE301584, AI357823, AU152561, BG222813, AA584484, BE062476, AW190505, T06202, BE062478, AL079734, T74524, AW080811,

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HBXCQ03	302	589516	1 - 954	15 - 968	BG120175, BE544936, AI201576, AV715085, BE784521, BE907045, AW954163, BE903963, AI523237, BE896658, BG178628, AI129802, AV716639, AI093553, AI609536, BF971819, BE865555, AI803312, AA447254, BE390304, BE796919, AA868174, AV759937, AV647691, N30176, BF541180, N24318, BF516529, AA453632, W37958, BE162169, W37898, BE568162, AI017441, AI755029, AW063634, AA181847, AW063677, AV754412, BF381600, AI139185, AA581849, BF843365, AI583215, AA286953, AV706513, BF843410, AA622390, AA593083, AI149776, AI147768, AW001548, AI126677, AA454050, BE882004, AI056923, AI075220, AA977028, BE673356, AI056023, AA854448, AA676961, AA989490, R95065, AI138447, R32288, AI937702, AI203651, N39222, AI167871, AI566213, AA287960, AV744208, AI077623, AI245299, AA928193, W46559, BE646003, AI355962, BF219142, AA484710, AA600331, AI760290, W79221, AI832052, AW237497, AI271783, AI298203, N70085, T87348, AA687733, AI991443, AA057201, AA470688, W46579, AA612840, H98821, W74509, R32264, AI805681, AI922006, BF941896, AA760827, AA299857, W00834, H98890, AV740884, AW063915, N23546, AA197188, AA644194, N39439, BF923729, H71672, AI658834, BE170263, N31237, AI362144, BE707356, AA055230, H08378, AI214394, AI190432, AV761586, AV759837, AA197197, AA437167, AA365540, T78855, W39071, AA304197, BF195909, AW771916, AV743851, BF130346, H11007, N46121, BG255863, AI927319, AA356963, AI264938, AA399247, AI208045, N46666, AW972756, N40822, N89815, AA360450, AA344227, AI928313, AA365174, AV740004, N48552, AW023822, AI301745, AI219014, BE699110, BE699132, AA057153, AI193498, R94976, T85817,

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HBXCR15	303	731861	1 - 1221	15 - 1235	AL534810, AL534387, AL535104, AI878947, AI934453, AL534169, BF345871, N34403, AW291820, AI948422, AW149505, AA161489, AA775285, AA976241, AL535103, AI983977, D80841, D60261, AI356643, AW872857, H19726, R44316, R44451, AW339237, AI566954, AI694577, BG059542, D80639, H17103, D81701, R87590, D80938, R44315, AI880344, R42107, H20064, D61349, D59321, AA350959, D60214, D60136, R15366, BF529462, AA338646, AI816257, R14282, R37720, AA351196, D80937, BF956594, AW957601, N48637, R19665, BF346067, H17721, BF959698, R54366, AB012162, AB022529, AC027307, AC027307, and AC027307.
HBXDL52	304	873460	1 - 2297	15 - 2311	AU119437, AU137547, AU120638, AW952705, AI126298, AU157282, AA928139, AU146650, AA884911, AA669075, AW237645, AA984931, AW207449, AW102724, AW901618, T75092, AW873598, F10664, F13070, AA909557, AA323033, AW104892, BF438108, AW885975, AA122151, R15207, F12792, T75332, AA483610, AA736795, AA989534, Z42341, BE612612, AA249408, AA039633, N88944, T06701, BF697021, BE833299, AL445216, AK001134, and AL137503.
HBXDL52	305	889328	1 - 2297	15 - 2311	AU119437, AU137547, AU120638, AW952705, AI126298, AU157282, AA928139, AU146650, AA884911, AA669075, AW237645, AA984931, AW207449, AW102724, AW901618, T75092, AW873598, F10664, F13070, AA909557, AA323033, AW104892, BF438108, AW885975, AA122151, R15207, F12792, T75332, AA483610, AA736795, AA989534,

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HBXDN08	306	566765	1 - 1043	15 - 1057	BE906748, BF218201, AW081278, AI333308, N98688, AA703183, AI479988, AI193601, AI683545, BF440014, BF694432, W90604, BG055247, AA745924, N76115, AI679961, AA453843, BF062867, AI948693, BF697551, W05566, AI679521, AA443841, AI373921, AA453759, H04280, W90281, AW369676, AW449922, AA699486, N70761, BE296059, BE004467, AI580844, AI445358, BF344475, AA431912, R55259, AA443699, N66163, AW747961, AA992879, Z41490, AA007177, BF756284, T99424, BE270351, T99530, BE295152, AA007176, BE892466, AI424134, H40015, R43458, R40222, BG116037, N48414, BE294735, AV757973, AA976548, AI214537, H02986, BF986044, BE000838, AI696420, BF090636, T25107, AL534238, BF090769, AF039843, AX035193, AF176904, AF176905, AF153084, AC012110, AC012110, AL354668, AL354668, AL354668, AL162211, AL162211, AL162371, and AL162371.
HBXDN65	307	840021	1 - 1934	15 - 1948	AV763460, AW162314, AV758849, AV683406, AW162332, AA180056, AI174703, AA280886, AW409621, AW265468, AW410844, AI890283, AA610644, AW514844, AI446618, AV755245, AW474825, AW021674, BG180320, BF724416, AI754257, AW409626, AW970856, AA765899, AW328185, AA425283, BE677164, AA807704, AI312267, AI890297, AV702625, AL121039, AW338376, AA171400, AI732720, BG003974, AI702049, N99245, BE882869, AI344906, AW275432, AW962791, AW502688, BF940118, BF525663, BF880881, AI444575, AA568303, AA557945, AW962971, AW023390, AI270280, AV759517, AV734311, AI254267, BE273825, AI567676, AW963552, AW157128, AW419201, AI252005, AI254463, AW157424, AU120423, AW410409, AI076729, AI819419, AW072963, AW148821, AW504667, BG059139, AA533660, AV757180, AW873417, AA640305, AI038029, N72678, H53546, BF812696, AI064968, AV760560, AA618531, AI003068, AA554289, AU151751, BE080768, AV760048, AA631915, AA603359, AA489390, BF725436, BE244308, AF126947, AW575808, AW963295, AA728954, AI572680, AW268793, AW403177, AI636422, AA218684, AI285651, AW839858, AA313025, BE049409, BE152006, AI609992, AW148964, AW875184, AW731858, AV763650, AA636077, AW631267, AI028148, AV651424, AV706458, BE744372, AV652066, AI251024, AW439224, AI889995,

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HBXFA04	308	842901	1 - 608	15 - 622	AI016087, AA416923, BF445341, AI187411, D81712, AA393224, AI366709, AI138856, AI300972, BF446095, AI208569, AA770226, AI266465, AI273636, AA806060, AI469870, N78510, AW138575, AA620996, BF511047, AW612658, AI681313, AV737414, AI347395, AA192299, BF589340, BE857975, AI310114, AI308072, AI142657, AI311563, AW005093, AI078265, AA917590, AA780190, AI264128, AA416858, AI479418, AI094689, BE857372, AA025864, AI971045, AI870613, AA723525, AI273866, AA975941, BE280253, AA443766, AI971121, AA626296, AA435851, N73669, AA935945, BE907087, AI681934, BF110215, AI735291, AI749426, AA476818, AA026598, AA196353, AI919372, AA196360, AI292139, AI680820, AI269875, AA196338, AI306499, AI690271, BE045317, AV743029, AI306498, BF664988, AA417880, AI735033, BF690782, AA192313, AI804297, BF540829, AA469915, W84495, W84355, AA248888, AV724520, AV718692, AV718489, AV744771, AV745847, AV719783, AV720464, AV701012, AV742001, AV745190, AV745920, D80168, AV743601, AV746385, AV718844, AV720731, AV701121,

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HBXFE64	309	838824	1 - 1633	15 - 1647	AA904211, AI284640, BF668217, AI355007, AV740801, AI826761, AI345654, BG222580, AW502975, AW627747, AI744830, AV763026, AV763058, AW243793, AI936229, BE350475, AW949694, AW517900, AI223968, AA704393, AI244127, AV761631, AI186438, BG059523, H73550, AA602906, AW957372, AA610491, BE047069, AV764398, BF589824, BG223316, AW238253, AC007536, AF053356, AC005736, AB020868, AC004895, AC008543, AL135749, AL137780, AL139099, Z82201, AC008760, AL356801, AC005971, AL356422, AC000115, AC002369, Z98051, AL133445, AC004485, AC015651, AP001207, AP001598, AC004858, AC004477, AC004916, Z97632, AC010271, AC005620, AC005082, AL157838, AP000140, AC011510, AL022322, AL031847, AC006160, AF176815, AP001697, AF109907, AL445705, AC010553, AC005913, AC002404, AP000555, AC004846, AC008014, AP001748, AC020954, AC004824, AC008482, AC010150, AC005696, AL135839,

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HBXFP72	311	688040	1 - 1453	15 - 1467	AV700240, BF034794, BE542761, AW955753, BE858597, BF820813, AV700056, AW834834, AA977676, AA039596, AI871723, AA039597, AI201016, AW338088, AI923596, AW268550, AI016244, AA826433, AA165179, BF573340, BE710275, AA876424, AW130871, AW994254, AI168822, AA743485, AI039963, R81034, BE827094, AV686074, AA526606, BE938870, AV713749, R80933, BF898713, AW131872, BF889337, AA367044, AA278895, AI352299, AI688836, AV735068, AK024961, and AC008831.
HBXFS31	312	815651	1 - 1537	15 - 1551	AU120416, BE973855, AL120058, BF965394,

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HBXFW01	313	847001	1 - 1238	15 - 1252	AL534520, AA776882, AA902212, AW161944, AI815901, AI816021, AW160773, AW162341, AW953249, AW163604, AI929610, AA911738, AW163622, AI929334, AA772991, AW160925, AI929367, BF347043, AW967217, AI929442, AW964321, AI816013, AI929398, AW162956, BE047169, AI929292, AW162277, AI929266, AA450192, AA707240, AI815858, AI815865, AA626061, AI815623, AA679846, AA205316, AW162973, AI372557, AA912026, AA973414, H29665, AW161604, AI671152, AA706286, AA297816, AW903451, R87354, H29709, T08782, BF512497, H29581, R54365, R54364, T16877, T33780, T31060, AA297813, AI207162, AA165495, T33587, R59349, AA297764, R43052, AA350470, AI652341, R59407, R20266, AA350469, R46024, AI372556, AA450126, R18729, BF931688, AW452417, AW118466, T15616, T03869, R22833, AI929344, AA206748, AI657065, AA297794, AW162532, AA165397, BF943988, BF945599, R43606, T08783, AI886949, AI609483, AI929739,

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HBXGE12	314	1310891	1 - 2502	15 - 2516	BE856551, N66656, AI953086, AI744607, AA173241, BF507861, AI339480, AI743767, AI565754, BE047699, AI362754, AI340346, AW953222, AW006084, AW015133, AI933317, AI863408, AI084095, AI885129, AA629251, BF223751, AI830892, BF307883, AI199671, AI830911, AA700777, H40797, H88498, H40796, AW592960, BF115495, AI651662, H28702, AV723914, AI740873, AI937686, R17513, AI198301, BE298994, H17223, AA173131, H08733, R42607, BE299247, H55332, R35737, AA886379, AI873220, N98939, Z83837, AF131851, AL096843, and Z84468.
HBXGL91	315	901845	1 - 2469	15 - 2483	AU123498, BF669940, BF698950, N42103, AI275144, BE538238, N33041, AA084153, F02846, AI086395, F03317, AI609217, F04586, BE933901, AK001178, AL050066, AF265577, AB020854, S56141, L22022, S56968, and S56142.
HBXGM24	316	821320	1 - 1649	15 - 1663	AW275007, AI141911, BE781027, BE245825, AU117048, AL532687, BE408894, BF344952, AL134565, AW834551, BE145121, AW834553, BE894112, BE147893, BF876571, AW817795, AW816056, AW937815, BG030748, BF815705, BF792143, AW881669, BG250853, AV730945, BE780820, AA505002, AI114667, BG104743, AW835378, AA349831, BF931573, AI940253, BF991141, BE080852, AU118935, AI086283, AW937721, AI920994, AV731285, BE074268, AA505013, AA505003, AW834576, BE145717, BG112019, BF968259, AL157598, AL157534, AW855467, AA736433, AA505014, AW811646, AV732399, AW418752, AW983779, AV750964, BF956959, BF989008, BF431227, AW896907, BF813199, AA708027, BG007655, AA598424, AA613356, BF343443, AW835380, AI809468, BF576449, BE158629, BE501524, AW890940, AA018943, AC006313, AC018712, AL121983, AC024085, AC006994, AC005969, AC005703, AC006226, AL133281, AC007731, AL391986, AC005500, AC005177, AC004969, AL121944, AC008473, AC008456, AL354750, AL049828, AL445259, AL391684, AL355520, Z82205, AC078854, AC007482, AP001731, AC007282, AC017028, AF248484, AC073504, AC004845, AC006212, AF127577, AL031054, AF196971, AC073387, AC018767, AC018503, AC004014, AC008555, AC023480, AL163207, AC006322, AC002381, AL390023, AL137226, AL021877, AP001622, AC004749, AC010251,

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HBZAI75	317	668231	1 - 1517	15 - 1531	AL049268, AL139010, AL139010, and AL139010.
HCABP33	318	866421	1 - 209	15 - 223	AW503311, AA855019, AI832219, BE397904, AI202027, AA864900, AI400341, AA055973, BE502452, BG057841, AI424455, BF222132, AI273366, AI348210, N68010, AI498915, AI825759, AI650669, AA554534, AA218963, AW973693, AI656101, AW408617, AW408113, AL534213, BE561797, AW135522, AF086104, AF132541, AC011458, AC011458, and AC011458.
HCABW10	319	846467	1 - 2001	15 - 2015	BG176665, AC021681, and AC021681.

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HCACZ65	320	850785	1 - 1950	15 - 1964	AL022165, AL022165, and AL022165.
HCBAB34	321	847002	1 - 1636	15 - 1650	AL519857, AL522429, AL525166, BE738260, AI822041, AL522428, BF790896, AA442345, AA401532, BE254979, AA437268, BF435254, N52034, AA416631, N40185, AI015605, AL525165, AI027999, AA401531, AI306383, AI022127, BE566102, AI208862, AI219053, AI352148, AI075231, AA904123, H23508, AA417289, AA894783, AA861727, AI350959, W01791, BE219962, Z39955, AA682619, F03154, AW452671, AA417315, T34718, AA151473, AA416846, AA363724, AA812629, AI205763, BF889168, AA504848, R50718, BF795119, AI620469, BE737946, N54649, BF953602, BF514822, BF953600, BF950828, BF953606, BF953605, BF950827, BF953597, H23500, BF950833, AW149619, BF953596, AA600964, AA248013, R13589, Z43892, AV741309, AA776535, AI948984, BF897667, BF992791, BE893315, AI343123, AA827281, AA309473, AI049800, BF995557, BE063301, AI948959, AI822093, AA329535, AI240919, BE543257, AI682310, AI114704, AW778931, AU158351, AA862014, AU159566, AI798242, AC004024, AL356414, AC019106, AL031291, AC003665, AC006011, AC009244, AC003663, AC006379, AC006597, AC006976, AL121949, AC010289, AC004814, AC007486, AC005098, AC008372, AC003029, AC002996, AC007666, AL049766, AC000052, AC009242, AC005015, AC005049, AC004019, AC007078, Z85987, AC007191, AC007428, AL034405, AL049830, AL031727, AC009032, AC005011, AL049542, AC000353, AC009333, AC004826, AC005365, AC020663, AL079336, AC007282, AP001705, D87675, AC005667, AP000355, AC008476, AL080317, AL136999, AL121751, Z83844, AC004382, Z82206, AL121652, AL117336, AL035658, AC008569, AC009509, AC006480, AL121916, AL157877, AC010170, AL109918, AC005072, AF108083, AF168787, AC004991, AC016778, AL109976, AC003689, AL158196, AC004166, AF111168, AC078899, AC005206, AC007000, AC005304, AC006075, AL109623, AC005081, AL109936, AL109967, AL033504, AC004971, AC073539, AC009247, AC007993, AC018764, Z83838, AC004805, AC003101, AC018493, AC006112, AP000047, AC019227, AP000555, AL354864, AL121580, AC010485, AL035671, AL353807, AC006515, AL135924, AC004099, AC010632, AC005280, AC011248, AL139350, AC002115, AC018738, AC011742, AL163282, AC008009, AC004867, AC007637, AC006013, AC002044, AC004560, AC006276,

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HCDAA24	322	806565	1 - 910	15 - 924	AI811075, BE908622, AW070435, AA708916, AA877889, BE503177, AI673586, AI290476, AA535517, BF569064, W05138, AW514005, BF127934, AA243877, AI446297, AA514267, AI240304, AA243884, AA502383, BE258194, AI682428, BF063249, BG012760, BG014657, AI784582, AA502905, BG260395, F16063, BF884748, H96943, BF904627, AA862373, N75418, and R55643.
HCDAA24	323	894773	1 - 1001	15 - 1015	BE908622, AI290476, AI811075, BE503177, AA708916, AW070435, AA877889, AI673586, BF127934, AA535517, AW514005, BF569064, AI682428, AI240304, BF063249, AI446297, AA243877, AI784582, AA514267, F16063, W05138, AA502383, AA243884, BE258194, BG012760, BG014657, AA502905, AA862373, H96943, BF884748, BG260395, BF904627, N75418, R55643, AV724520, AW966054, AV719783, AV720464, AV719468, AV718800, D80164, AW949654, AW966043, AV718487, AA305578, D80248, AR070327, AR060385, AR016691, AR016690, U46128, and AR060133.
HCDAF17	324	722206	1 - 789	15 - 803	BF666325, AI650305, AU152292, AW664357, AW664372, AI949332, BF131307, BF695543, AI206515, AU152653, BE565134, AI188549, AW169558, AW204540, AI433853, AI580329, AI624558, AA994295, Z40075, N34408, AA602338, R68268, AI015727, R54010, R53421, BF692714, AW664144, AA090402, and U72788.
HCDAH02	325	653066	1 - 651	15 - 665	BE888288, BG034953, AL536781, BE551063, BF590657, BG115945, AI373082, BF382441, BE327195, BE895010, AV759369, BF972414, AI690236, BE870346, AI870764, AV693339, T97702, AV693620, AA564435, AA354839, AA838632, BF197663, AI915144, AA377701, BE772545, AW137697, BE313508, AI954846, N42756, F06141, Z42939, N95695, R98511, BG117569, W19932, BF223742, R79680, AA131526, BE565309, BE175551, BE175535, N77708, BE018209, BF032912, BE567647, AL031597, Z84477, AC022201, AC046185, AC046185, and AC046185.
HCDAP33	326	566794	1 - 1440	15 - 1454	AW512408, BE673897, BE672198, BE739450, BE327644, BE549985, AI700700, AA777895, AI815226, AA917672, AW816301, AI911234, BG165218, BE220240, AA595359, AA031324, AI342107, AI160506, AI214211, AI580795, AI274975, AW150250, AW612650, AI346085, AI348235, AA040875, AI075236, BE739623, AI378184, AA748325, AW002792, AA938750, BF593115, BG107612, N22159, AI498479, AV757479, N59349, AA258785, AA731681, AW243172, AA810789, R53978, AI337729, AI633096, H97769, AV713780, AA258888, AA834356, BF965355, AA031323, AV713247, BF679371,

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HCDAR40	327	654821	1 - 839	15 - 853	AA572983, AA568314, AA658918, AA654038, F23264, BF873758, AI587583, AI587565, AW813668, BF725178, AW847624, AW970987, AA525807, BE328656, BF882222, AW674258,

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HCDBW67	331	733860	1 - 663	15 - 677	AL523962, BG122940, BF983873, BE271224, AI040048, AL521560, AL515309, AI350570, BE694814, BG012629, AW470067, AA629860, AU155469, AI817134, AA112678, BE271043, BF219411, BE904090, BE350682, AI378990, and AK023408.
HCDBZ31	332	701973	1 - 844	15 - 858	AW469726, AI377553, AW888567, AI039215, AI590227, AI824576, BF812960, AL514015, AI306610, AL513901, AL046466, AL514155, H89138, AI590043, AI285439, AW051088, AI638644, AI698391, AI687168, AL514063, AI540458, AL515033, AL514867, AI580436, AA916133, AV750565, AA279795, AI624293, AL514791, AI866469, AI818980, BE544111, AW162194, AW089844, AI582966, AL046595, AI891084, AL514357, AI819976, AI673363, AI918435, AI670009, BF868489, AL514493, AL119863, AL514087, AL513979, AL513977, BG029829, AL513597, AI801460, AL514871, AI861973, AI540674, AW163834, BE393784, AI371243, AL038437, AI582932, AW128834, AL515413, AI270183, AA975952, AI289791, AW262552, AI570966, AI570807, BE965129, BF970652, AI345416,

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HCDCE51	334	813504	1 - 1071	15 - 1085	AW957759, H08961, W20139, AA237066, R46859, AA354236, BF337291, AV704232, AW827240, AV655096, AV762645, AL138455, AV760391, AV760466, AV760389, AL042853, AI821062, AV698043, AL046262, AV756220, BF342223, BE252421, AV683513, AL042538, AI570389, AV759518, AA594157, BF725761, BF676981, AL042753, BE901529, AL045943, AV762395, BF857083, AL035847, AW827205, BE906410, AA598742, AA853473, BG033220, AA768247, AW021195, AV763418, AL353802, AB052200, AC012502, D83989, AC007298, AL353745, L30117, AC004883, AL022170, AL022147, AF168787, AC004987, AL121920, AF091512, AL136128, AC026431, AL163282, AP001666, AC006994, AC007114, AB046642, AF130056, AC011491, AC011484, AF042090, AC006112, AC005291, AL035458, AL121656, AC024247, AC010605, AC006241, AC005968, AC007383, AL445490, U95739, U66059, AC021016, AL353625, AC023880, AC002467, AC002352, AC002115, AL034417, AB049900, AC019176, AC020908, AP000344, AP001725, AC010081, AC002564, AC008534, AC009336, AC007282, AC002464, AC005048, AC006451, AC073342, and AC073342.
HCDCI42	335	847004	1 - 1032	15 - 1046	AW119233, AW299412, BF105238, AA173512, BF208045, BE542928, BE889829, AU139403, AV695975, BE566224, AW955434, R76511, AV692649, AK002192, AF174536, AF191838, AR016417, AF145705, and AF191839.
HCDDB15	336	841041	1 - 1408	15 - 1422	AL525400, AL525227, BF339568, BE562581, BE258618, BE736367, BF982872, BE797757, BF343522, AV716551, AA902725, AI589864, AI820040, BE676341, W68166, W67707, AW273484, BE503344, BE620119, AI871681, AA825715, AA148301, AA010772, BG034304, BF026964, AI686410, AI738970, N49809, D81381, AI341231, AA530878, AI689725, AA151837, AA946804, AA134120, AW341621, AI934921, N39604, AI346463, AI700538, AI800293, AI360331, AI970112, AI074021, AI657070, AI341375, AI346086, AW439926, AA554441, AI143175, AI858285, BE463533, AI970138, BE620551, AI247326, BF724674, AA488191, AI123914, AI269680, AI263094, AI221209, AA804389, BF941489, AI951232, AW014925, AW965867, D80988, AA085654, AI336542, AA775418, H14630, D80822, BF224304, F21575, AI271932, BF314725, AA707276, H09632, AA860931,

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HCDDX81	337	603184	1 - 405	15 - 419	AI073641, AA505320, AI419468, AW972479, BG152620, BF674236, AI471102, AW370201, AL513631, AL514691, AL514473, AL513907, AL514627, AL514015, AL515195, AL513817, AL514791, AI434453, AL514919, AL513597, AL513779, AL514087, AL514357, AL513951, AL513643, AW087385, AL514409, AL513687, AV714274, AL515191, AV713662, AW264019, AL513553, AI473554, BF970652, BE966577, AL513999, AW089689, AI798351, AL515413, AI640729, AI345347, BE962580, AL513977, AI932794, BG036614, AW051088, BG107792, AI891084, BE886728, AL513913, AL514983, AI636183, BG121959, BG112718, AW021717, BE965014, AL513693, AW169604, AL513723, AI554821, AW151136, AI470293, AI473451, AW020397, AI637584, AL514063, AI612885, AI824648, AI569945, AI538850, BE963090, AI291601, AI698401, BE963872, AI866770, AL513781, AI539766, AI493567, AL514721, BG029086, AI432969, AI283941, AW088037, AL514025, AI343091, AI682903, AW827289, BG163618, AI287233, BG178911, BE875028, AI280607, BF814447, AL513979, BG109270, BE905335, BG180996, AI648508, AI889168, AW193872, AW104056, BG170937, AW020710, AI280655, BF680133, AL514205, BF870154, AW162194, AI677646, AW029401, AI800155, AI868204, AI800433, BE785868, N22276, BG179486, AI340511, BG167249, AA807088, AL120853, AW105601, BF970768, AI580674, AW080746, AI950688, AI670009, AI567612,

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HCDDY28	338	892137	1 - 1677	15 - 1691	BF666490, AW085990, AI581179, AA534294, AW806827, AA769374, AA631773, AI912207, AW935970, AW979039, AA828763, AW935894, BE148343, BE069848, AA584616, BE069211, N51865, AW081484, AA524188, AI018020, AA984031, AW379206, W44337, AW894331, AW970693, BE185900, AA092737, AL132656, AF130084, AL137013, AC011890, AL357153, AL109654, Z84720, Z83820, AL024458, AC007385, AC004385, AC006262, Z84470, AC011088, AC022215, AL358133, AC021019, AC002457, AL354985, AL050305, AL121984, AC005018, AL031183, AL161904, AC016612, AC025759, AC004690, AC006052, AL139279, AL137157, AL121975, AC006257, AC007785, AL137062, AC005040, AC002487, AL353745, AC006397, AL359641, AF130110, AC008014, AC003001,

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HCDEB19	339	587264	1 - 1730	15 - 1744	AL514734, AU142665, AL535830, BE901271, BE903175, AU120437, BE745673, BE795532, BE795184, BE745221, BE727680, BF794804, BE730409, BE732398, BF025900, BF027290, BE799396, BE743962, AW027553, BE798753, BE740212, BE733442, BF975742, BE540488, BE885500, BE727075, BF310011, BE746261, AI986029, BE892530, BE900484, BE384966, BE905355, BG180196, BE797952, AI190922, BF312819, BG178160, BE259775, BF310619, BE208484, BE780583, BE903260, BE384967, BE298635, BF220143, BF034689, BE743900, BE259144, BE294051, BE394021, BE791246, BF314306, BE790393, BF026612, BE312573, BE542030, BE264125, BF688258, BE902581, BF317175, BE729244, BE899198, AW245824, BE313447, AW247887, AW245997, BF979247, BE545951, AI033780, AW006028, AW247275, AA828077, BE385957, AV759626, BE539575, BE386645, AL514733, BE794463, BE266251, BF315082, BE895464, BE889944, BE265650, AW005004, BE253344, BE794395, AW732164, BF203705, AA405231, AU146503, AA599316, BF248034, BE206909, AW732138, BE298923, AI078327, AA974522, BE265711, AI096984, BE729152, BE206931, AA618545, BF210886, BF032880, AI421332, AW615453, AA406130, AI797688, AA679081, BE259175, AI672922, AW962954, BE281390, AW069473, BF032242, AI912279, BG259246, BE866821, AL525634, AW071217, AI183800, AA699445, AA694247, AA521388, BE465571, AA906726, AA947109, AI056607, AI140190, AA528097, AW245551, AW450841, AW951682, BE387507, AI084169, BE779392, AI049841, W05716,

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HCDEN46	340	838592	1 - 943	15 - 957	AL518664, AL516021, AL535549, AL518368, AL526977, AA703938, AL518844, AL513833, AA843139, AA704089, AA788949, AL527146, AU124946, BF526219, BF342016, BG114174, BG105559, AL048374, BF309406, AA780035, BE881426, AL514023, AU137486, BG034902, BF793412, BE892549, AI963623, AA652509, BE274650, AW192863, AI561195, AA553793, AI871988, BG110889, AI922743, BE744749, AI521675, BG026232, AW152414, BF338340, AI628240, AW157347, BE881433, AW117767, BG119170, BE277904, AI445463, AI922834, AV721543, AI888590, BG122177, AI925872, BG027060, AA669947, AW189999, AI924054, AI991215, AW069279, AA029381, AW193505, AI961523, AW470100, BG027573, BF970478, AA573199, AI814686, AI701093, AL047130, AI813871, BF969942, BE730489, AI922777, AW192523, BF525740, AW662405, AW069154, AW375580, BF977501, AA729727, AW515884, AI707709, BE350194, AW613129, AV722967, AW151868, AW166194, AI636319, BG028853, AA788696, AW078762, AU136708, AW087908, BE160876, AW029368, AW471411, AV704309, AW172970, AA670009, AW846347,

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HCDES69	341	609997	1 - 1018	15 - 1032	AW513872, BF893263, BF893276, BF347912, BF893278, BF893425, AW794915, BF893279, AU135014, BG007214, BF893260, AL354977, AL163208, AL023581, AC006203, AC004002, AL009031, U91322, AC003658, AL078612, AC002326, AP000494, AF222684, AC011484, AC006399, AL079305, AC004985, AC008154, AC018673, AP000263, AC018646, AC083861, AC078843, AP000036, AC006417, AP001713, AL117338, AC005181, AC026189, AC066587, AL121908, AL354977, AL354977, and AL354977.
HCE1D45	342	664481	1 - 1376	15 - 1390	BF969762, AL529165, BE265457, BF337158, BF058822, AI633731, AA742535, BF342162, AA928586, AW024580, AI031748, AA287493, AW139368, AW675464,

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HCE1N56	343	821704	1 - 1576	15 - 1590	AA909025, AI076817, AA203708, AW663451, AI608904, AI861844, BF440055, AI288729, AI671662, AI935205, BF110149, AW072072, AI436671, AI627289, AA830822, AI167164, AI198462, AA991698, AA126915, AI074608, AA700379, AI568337, BF110703, AA235131, AI021942, AI066428, AI357329, AU155604, AW072939, BF907315, BE045440, BE843886, BE938415, R42843, BE550861, AA916762, AA535892, AI654152, H10211, AA128107, AA490610, AI816749, H58176, H08744, AI254711, AI470802, Z45596, AW296585, AA490802, AI276306, BE617926, AI141291, AA368724, AA932766, H58177, AI015137, BF095756, AI499453, BF092513, AA641458, H10265, AA234957, AI762281, H08456, Z41284, AI824738, AA731515, AA483839, BF095901, AA748701, AW602874, AI499455, BE962449, BE617485, AW804668, BE540522, BF907326, BF991348, BF095975, BE612997, AF002223, AK024745, AK001816, AJ224979, AF057354, AF125314, AF002223, AF002223, and AF002223.
HCE1T53	344	843680	1 - 1447	15 - 1461	AW965008, BG028665, AW962035, AI679294, AI679871, AA133332, BF673743, AI567674, AV733710, BF872337, AI204309, AW851828, AL048626, AA736713, BF679169, AV760364, AV759356, AA838140, AA812058, BE273825, BF915535, AI679782, AU118745, AV759711, AV722030, AV763135, AV762022, AV762900, AV763174, AV759683, AV762902, AV764389, AV759684, AV762779, AV761309, AV759686, BE676549, AV762001, AW102955, AW275432, AV759682, AV761762, AI859335, AW963982, AA629679, N23913, AW968156,

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HCE1Y34	346	809084	1 - 1706	15 - 1720	AI753334, N66948, AV738383, AI688963, AL031717, AC022517, AC008066, AL080243, AC020552, AC000003, AC020917, AC004659, AC005089, AL133355, AC005197, AC004143, AL035685, AC005015, AC008395, AC004826, AL138735, AC004089, AC005081, AC024561, AC005924, AC005747, AC011510, AC005080, AC005158, AC009004, Z98044, AC008372, AL139109, AP000108, AP000040, AC004383, AP001746, AL118520, AL049569, AC004878, AL122020, AL132987, AC007850, AC004965, AP001715, AL161937, AC006001, AL137073, AC004967, AC004103, AL355392, AC003010, AC008403, AP001753, AL031717, AL031717, and AL031717.
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HCE2E47	348	886155	1 - 1816	15 - 1830	AA830078, AA974503, AV720371, BF677892, AI284640, AA601218, AA581903, AW193265, AL138265, AL046409, AI281881, AF330238, BF668217, BF869074, AV740801, AI613280, AI963720, AL046205, AI431303, BE049099, AI334435, AW301350, AV760937, AW303196, AV710066, AI270117, BG171096, AI499938, BF797630, AV763354, AI345654, BG116267, BE138981,

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HCE2P90	350	737935	1 - 1879	15 - 1893	Z98257, AL137119, AP001709, AC004552, AC003002, AC008536, AP001712, AL157877, AL137141, AC007182, AC006120, AL035458, AL117186, AF011889, AL136296, AL163206, AL049872, Z98051, AL022578, AC020728, AL049569, AC002357, AC005859, AL163300, AC083871, AC010219, AC005993, AC005280, AC012085, AC006251, AC009311, AC002394, AP001715, AC002456, AC005484, AL163248, AL033529, AC005913, AL137230, AC006544, AC005823, Z93015, AL136968, AL139352, AL050318, AC005996, AC001228, AF196779, AC020750, AP000014, AC004616, AL080314, AF067844, AL355497, AL356414, AC008040, AC011890, AC009248, AC006543, AL121601, AC005015, AL121997, AL357519, AC006354, AC004973, AL360227, AL158040, AL163249, Z98946, AL133395, AF240628, AC005409, U78027, AL035422, AC005399, AC004386, AC006538, AC008123, AC004817, AP000704, AC008045, AC006480, AC002492, AL133445, AC005208, AL359272, AC005988, AP000563, AC016602, AF111167, AC018698, AC007298, AP001711, AL132659, AC004887, AL049538, AC005200, AP001695, AP001713, AC005386, AP001692, AP001728, AL109823, AC027319, AC002418, AC010134, AC007782, AF051934, AL136418, AC018755, AL136137, AP000133, AL121586, AF001905, AC008806, AC002558, AP001752, AL109825, AL136300, AC002466, AC007388, AL136097, AC006241, AF235098, AC008551, AC018738, AL121873, AC003101, AC004814, AP001435, U91327, AC016652, AL078594, U91328, AC005740, AL356782, AC005052, AC005972, AL136139, AC005358, AL391839, AC005534, AC007057, AF109907, AC005664, AL137073, AC010620, AC006236, AC024561, AL022318, AR036572, AC018719, AB020870, AL158830, AL035400, AL161731, AP000211, AC004582, AL050335, AC021016, AL035413, AC008543, AL121754, AL033527, AL022329, AL096701, AJ229042, AC006211, AP001753, AP001748, AC004858, AC004126,

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HCE3C46	352	737889	1 - 1216	15 - 1230	AV751000, AW816047, AA680243, AI732120, BF915799, AV756726, AV762975, BF736198, AW965008, AU159864, AL121235, BG260565, BE740358, AI734144, BF916691, AI061313, AW963982, AI358384, AI345157, AA584489, AI004591, AV740801, AW500029, BF724372, AW302315, AA653139, AW467286, AI635819, AL048626, AI583466, AW845366, AI753488, AV762129, AW505253, AU123691, AW970571, AI064864, AI732151, AL040054, AI566408, AI962030, AV762139, AW969629, AV760360, BE063437, AA665330, AA191418, AV764259, AA663201, BE796439, AW953071, AV763026, AV763058, AI040051, AI755214, AA394271, AA666332, AV762050, AI081147, BG109996, AU140403, Z69890, AP000359, AC007216, U95742, AC004882, AC005015, AL022318, AL031662, AC006117, AF196971, AL157938, AC006285, AC005387, AC010748, AC005512, AC011811, Z69917, AL121914, AC011484, AC004212, AL133551, AP001717, AC004673, AC005231, Z93017, AL050335, AL049569, AC011895, AL034420, AL162505, AP001725, Z83840, AC005412, AC020904, AP001748, AC007536, AC007666, AL354864, AC004824, AC008635, AL109976, AC004929, AL109758, AL136179, AC010605, AC005011, AL049760, AC008760, AC003982, AF111168, AC011465, AL034380, AC006337, AL133448, AC007388, AC004476, AC073651, AC010553, AC004686, AC002553, AL035400, AC004821, AL161781, Z98051, AC011475, AC022148, AP001753, AC005668, AF190464, AL353748, AC006132, AC006241, AL035587, AC005899, AL034555, AC018738, AL096840, AC005667, AL050318, AL133467, AC011479, AC007488, Z93930, AL136087, AL031729, AC011455, AF168787, AC004826, AL049694, Z95116, AC004854, AC002369, AL161670, AL049840, AC008764, AC011495, AC005971, AC005102, AC007739, AP002085, AC006023, AC000070, Z84480, AL050349, AC005736, Z85986, AL162430, AL158172, AP000503, AC004263, AC004841, AC005324, AL135744, AL022316, AL031289, AC010489, AC006468, AL049766, AC009123, AC004812, AL137009, AC004971, AC007052, AL021397, U85195, AC006480, AL354696, AL031311, AC011891,

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HCE3J43	355	766758	1 - 2115	15 - 2129	AL043989, AL040242, BG115000, BG257342, AL043986, W02321, AL043864, AL043987, AA843303, AI310234, AW149567, AW157054, AI819398, BE867600, AW844167, AW006386, AA446843, AL044036, AA029604, AA160953, AI818092, AA411394, AI198421, BF813609, AA161481, N57481, N31819, BF809635, BF925100, AA757583, AA661840, AL043988, BE703955, AI168438, AA250764, AA912010, H05196, AI814669, BF964959, AA620508, N73093, AI066444, AW872953, AA443489, AI376263, AW023823, AW896140, AI425107, AI300963, BE972848, N49254, AI601212, AA630586, N28306, AA506571, AI124653, AA112602, AA429479, AW264945, AA609853, H99492, AI926768, AA164233, AI582127, AA931685, AI003977, AA079478, AI358274, AI298999, BF756272, AA694585, AW628151, N49356, R85331, H41135, AI807111, AW966787, N47879, AI199639, AA483783, N42488, W76262, AI161173, AI471128, AA401215, R85332, AA317640, AI248287, R86697, F11365, H17546, H26132, T30230, F09026, BE081962, AA446842, BF061332, BE081414, AI077860, R94798, AA932883, W72550, BE702486, AI354651, BE702482, BE702531, AV746815, AA346797, AA093407, AA332334, AA191097, T07236, AA164232, AA910385, AW873957, AA436260, AA411118, AW965407, AA939016, BF949851, R09825, AA526511, AA622123, AA079477, AW352372, AA334182, AA602413, R12412, AW900315, BF741861, AI468908, BF956768, R86698, AA878221, BE830584, H05157, BF952324, BE378287, AI473543, AA004631, AA091999, D81325, Z38207, BF092434, AA004232, AA644131, AA331516, AI023515, N47626, BF529049, AW754285, AA657378, N51138, AW371021, AA247669, BF359495, BE671820, C00771, AI902484, BE077262, BF816186, AK025559, AB014511, AK026513, AL035684, AF086357, AL035684, AL035684, and AL035684.
HCE3L04	356	845973	1 - 695	15 - 709	BF948933.
HCE3N23	357	810211	1 - 3131	15 - 3145	AL534989, AL533583, N99340, AW952383, AL534990, BE891139, BF346819, BE743942, BF337706, BF345966, BF801834, AW895212, AW966677, W28619, AA653434, BE047099, AW952788, AI588963, BF507551, N36397,

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HCE3R01	358	834836	1 - 2732	15 - 2746	AU120092, AU122351, BE730090, BE730046, BE409812, AU125487, BE795821, BE907588, AU124507, AU134221, AU125043, BG109175, BE790652, BE741377, AW952376, BF034272, BE543185, BF527701, BE387222, AU123111, BE778205, BE897300, BE255798, BF669496, BF238361, BE908154, BG260909, BE302528, BF210739, BE787569, AI637884, AI609079, AA444144, BF034596, AI479902, BE538104, AA908903, AI890328, BF197657, N24415, BE767761, AI024556, BF027743, AA779473, AW382602, AI096983, AU159008, BE350656, BE153058, BF367967, BE079280, BF898004, AW269510, AA872834, BF845462, AI750816, AV709906, AW952225, AI246462, AA219698, BF367956, BE207428, BF448325, AA443962, AA886907, AA620680, BF953172, H99625, AW976325, BF367950, AA534848, R72501, BF953176, N20573, AW390543, AI081065, AA223806, AI348546, AI750817, AA224271, BE246657, N28964, BF856745, AA524451, W16458, BE730618, AA618583, BF094275, BF910969, H47155, AA322143, BE767995, AA326079, AA744727, BE768325, H12022, W96464, AA227383, AA323733, W96565, BE247324, BE244026, AI817484, BG003359, AA223720, AA171823, BF745890, R78871, AI423114, AA223696, R78963, R15041, AA744725, AA828394, AW805155, BF031023, AA598797, BE614309, R41479, BF531117, F21661, AA102045, BE246656, BF910354, AW794437, AA171698, AA780969, BE698804, Z41857, AA102764, BF745891, Z38156, R34590, BE831267, H11938, R34589, BF094294, AA553554, T08776, BE966500, BF368271, AA553564, BF745875, AA992721, AA780727, BF745877, BF999987, AW866680, AI277481, AW889189, BF953178, AF074606, AF140360, AK023890, AL137845, and AL137845.
HCE3R01	359	841472	1 - 2722	15 - 2736	AU120092, AU122351, BE730090, BE730046, BE409812, AU125487, BE795821, BE907588, AU124507, AU134221, AU125043, BG109175, BE790652, BE741377, AW952376, BF034272, BE543185, BF527701, BE387222, AU123111, BE778205, BE897300, BE255798, BF669496, BF238361, BE908154, BG260909, BE302528, BF210739, BE787569, AI637884, AI609079, AA444144, BF034596, AI479902, BE538104, AA908903, AI890328, BF197657, N24415, BE767761, AI024556, BF027743, AA779473, AW382602, AI096983, AU159008, BE350656, BE153058, BF367967, BE079280, BF898004, AW269510, AA872834, BF845462, AI750816, AV709906, AW952225, AI246462, AA219698, BF367956, BE207428, BF448325, AA443962, AA886907,

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HCE3R01	360	844574	1 - 2722	15 - 2736	AU120092, AU122351, BE730090, BE730046, BE409812, AU125487, BE795821, BE907588, AU124507, AU134221, AU125043, BG109175, BE790652, BE741377, AW952376, BF034272, BE543185, BF527701, BE387222, AU123111, BE778205, BE897300, BE255798, BF669496, BF238361, BE908154, BG260909, BE302528, BF210739, BE787569, AI637884, AI609079, AA444144, BF034596, AI479902, BE538104, AA908903, AI890328, BF197657, N24415, BE767761, AI024556, BF027743, AA779473, AW382602, AI096983, AU159008, BE350656, BE153058, BF367967, BE079280, BF898004, AW269510, AA872834, BF845462, AI750816, AV709906, AW952225, AI246462, AA219698, BF367956, BE207428, BF448325, AA443962, AA886907, AA620680, BF953172, H99625, AW976325, BF367950, AA534848, R72501, BF953176, N20573, AW390543, AI081065, AA223806, AI348546, AI750817, AA224271, BE246657, N28964, BF856745, AA524451, W16458, BE730618, AA618583, BF094275, BF910969, H47155, AA322143, BE767995, AA326079, AA744727, BE768325, H12022, W96464, AA227383, AA323733, W96565, BE247324, BE244026, AI817484, BG003359, AA223720, AA171823, BF745890, R78871, AI423114, AA223696, R78963, R15041, AA744725, AA828394, AW805155, AA598797, BE614309, R41479, BF531117, F21661, BF031023, AA102045, BE246656, BF910354, AW794437, AA171698, AA780969, BE698804, Z41857, AA102764, BF745891, Z38156, R34590, BE831267, H11938, R34589, BF094294, AA553554, T08776,

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HCE3R46	361	844450	1 - 2032	15 - 2046	AL519290, AL533566, AL515841, AL533565, AL518507, BE786283, BF796381, BE789948, BE894550, BG023950, BF974711, BF980376, BG176688, BF797260, BG256417, BG251518, BG117297, BE739732, BG034952, BG178736, BE397435, BE311957, BG110989, BE865449, AV710566, AI937192, AI992140, BG106973, BG034206, BF971870, BG256534, BE541348, AI924787, BF182770, BE543876, AW836476, BG177438, BE622551, BE397128, BF183961, BE777495, BE788503, BE748574, BG105315, BG031320, BE787440, BF972659, BE278877, BE891447, BE619355, BF184135, AL518506, BE280620, AI133232, BF210240, AV761560, BG025014, BE544842, BF666632, BF574847, AI917927, BF184564, BF028159, BF832502, BF672018, BE567184, BE896572, BF126162, BF670473, AW836533, BE263294, BE866141, BE782700, BF797499, BE885849, BF789937, BF679414, AV731004, BE968529, BG252668, BE542202, BF207936, BE968522, BF977557, BF126311, BE076579, AW842559, BF694334, AA150370, AW662270, AW749852, BE885354, BF574762, BF574389, BF694115, BE380057, BF212469, BE787832, AV722488, BF448701, BF672881, AW249958, BE748159, AV711426, BE549264, BE261139, AW572539, BF183899, BE960988, BF244215, BF574422, BF105168, BE788552, BF216922, AI817573, BF210143, AW965833, BF792550, BF184857, AW749851, BF184861, BF031875, AW754237, AI694726, AI457776, BE738952, BF979428, AI917937, BF031334, BE866154, AA887005, BE547840, AA865629, BF239845, AA488514, BF204630, BF574413, AA706657, AW805029, AA308188, BG054856, BG256896, BF246651, BF131533, BF029681, BF571765, BF196908, BF314807, AA488382, BF248180, BE567679, BF913851, AA165473, BF243825, BE158889, AV724848, BF126351, BE349461, BF184055, AW272837, BF185743, AV648985, AW574716, AW196993, AL515840, BE871168, AA207160, AL519289, BE870906, BE047291, AA625331, BF732912, BF669827, BF737448, BF819190, BE160569, AW440612, BE617635, AW298689, AI635826, BE295821, AW376046, AA843667, AI337859, AW073156, AI831352, BE869113, AI963742, BF196646, AI199088, AW402046, BF240249, AI432811, BF029790, BF211753, BF105073, BE563896, BE886188, AW953221, BE882637, BF693355, BF130771, BF207830, N21123, BF184735, BF196641, AI432806, AA946668, AI432815, BF445904,

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HCEBF54	369	847033	1 - 1055	15 - 1069	BG250889, AL079457, BF109243, AI806945, AI808154, BE645557, AA553835, AI761617, AI650999, AI669726, BF060977, AW960843, AI922001, AI799329, AI380521, AI803917, AA666313, W57763, AW190282, AW518228, AA506687, BE326990, BF057689, AI638277, AA159323, AW052008, BF590389, AI269138, BE548921, AA635160, AW292076, AA322034, R76041, W57762, H19279, T79009, C02014, BE550018, R75868, BE834143, AW118383, BF222984, H19278, AI540255, AA321620, L44530, BE826118, F07530, AF207550, AB032993, AF274058, AF274057, AJ297364, AF207550, AF207550, and AF207550.
HCECO77	370	571044	1 - 1422	15 - 1436	BG259402, AA570389, BG034712, AW954950, AA628408, AI885041, BG257523, AA775796, AA143345, AA127723, AW268482, AA917093, AA776727, AA127867, AW083266, AA032244, AW269441, AI130939, AA476752, AI677906, AI091872, AI082240, AW005095, AA127715, AA476754, N59422, AA824233, AW028725, AW662782, W74250, AI858939, AI248997, AA031471, W89015, AA885202, AI168327, AI859188, AA703322, W67630, AI880820, AA694066, AI421683, AI749093, W89016, AA846347, AW016191, W86289, AA127770, AI140255, AI243503, AA972658, D11834, AA723187, AI184484, BG011082, AA927223, W46496, AA733122, AI281016, AA284435, BE930872, W67370, AW057998, AA285177, H30793, AI239862, N34810, AI910574, AA635592, AA378996, AA342789, W86333, AA033672, W85839, W79801, BE541384, AA459714, T48853, AI200290, AA047695, AA411477, D53212,

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HCEDH42	371	821321	1 - 1405	15 - 1419	BF824908, AV755215, AV757088, AV702854, BF131961, AA181890, AV756554, AL036773, AV757752, AI950092, AW134795, BE968824, BF131261, BF965460, AV702869, BF030662, AV723324, and BG258650.
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HCEDJ26	373	840397	1 - 1970	15 - 1984	AV729407, BE890059, BG031202, AV717629, BG261253, BF244140, BF690756, BE541093, BE536531, BG111688, BF240321, AW955181, BF343156, AW751808, BE970213, BE739016, AW177060, BF817662, AW177038, BF945496, BF816815, AW177034, AW367257, BF817372, BF814733, BF817890, AW401519, BF570915, BF126398, BG112929, AI670857, BF698193, BF572943, AI928821, AA455678, AA603207, AU153486, BF574699, BE674105, AW177035, AW276608, AI497826, AL119809, AW014361, BE885237, AI262628, AI798945, BF342780, AW177054, AI005124, AW177025, AW177061, AV720711, C18646, AA580452, AI348052, AW177064, N30141, AW163009, AI753116, AW168115, AI014813, AI950818, AA916422, AI075709, AW177037, AW189526, AW518968, AW770107, AI801986, BF815949, N70212,

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HCEEG48	376	896688	1 - 982	15 - 996	AW664013, AI809377, BF437280, BF476415, BF939178, BE910173, AI276041, AA323414, AW296883, BG170738, BG055229, AI798340, BF093872, AW973541, AV719822, AV700495, AV720211, AV718487, BE328291, AW966385, AV720104, AI560085, AA572987, AW471332, AI962030, BF725844, AI612070, AV719632, AA644090, AI565084, AI611533, AW962611, AL048290, AW328331, AV699866, AV719628, AW468009, AL040054, AI590906, AI311647, AI733085, AV720729, AA525331, AI791578, AW969743, AW274078, AA804995, AW958962, AW272294, AA225406, AA904211, AA483606, AI926728, AW468048, AA244339, AA570740, BF887154, AA579152, AV657198, AW664548, AA653477, BF991881, AA714011, AA502098, AV760014, AA832145, BF991882, AL034380, AC005098, AC004166, AL021878, AF243527, AL133174, AC007182, AL158823, AC004824, AL050307, AC009247, AL158040, Z81364, AC004867, AL049759, AC007546, AF131216, AC004878, AC002072, AL450224, AC005324, AL022238, AC006538, AL450226, AC006337, AC004033, AC007666, AL137039, AP000215, AP001724, AC004814, AC004890, AP001728, U91318, AC002470, AL008637, AC005837, AC006077, U52112, AC008521, AL157938, AL031669, AC002486, AC005071, AC005103, AF047825, AL078638, AP001760, AC020906, AC010102, AC010422, AC004966, AC008547, AC006057, AC010458, AC002477, AP001412, AC011442, AL008719, AC002310, AC005081, AC016395, AL008732, AC008745, AC005080, Z75888, AP000152, AC005500, AP001710, AL034417, AC011465, AL353777, AC008474, AL161445, AC006239, AC007957, AL132775, AC002425, AL133507, AC005520, AC007308, AC003982, AC007731, AC008623, AC005378, U91326, AC005229, AL356299, AC005189, L11910, Z86090, Z75887, AF196972, AL035420, AC004805, AL049694, AC005280, AF165926, AL049795, AC005971, AF196779, AP001751, AC005839, AC006511, AJ011930, AL121905, AL163300, AC011495, AC002316, AC011449, AL163279, AC009116, AL096840, Z84466,

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HCEEM33	377	821322	1 - 1151	15 - 1165	AI246710, BF968525, AI763071, BE674657, AA460540, BE328200, AI611086, AI168314, AA460541, BF507593, T16448, BF675159, T08984, AW451887, AI016123, AA668246, R60880, AA971942, R23514, AI223180, Z38546, BF590051, R43444, BE701712, AW182351, Z20913, AA972023, H24284, Z20948, AL137748, AB046764, Y18276, AF072371, AF072372, A74680, and A74602.
HCEEP16	378	668234	1 - 1367	15 - 1381	AC025882, and AC025882.
HCEER60	379	826016	1 - 761	15 - 775	BG055027, AW293944, AI863059, R43077, BE764482, AC015546, AC015546, AC015995, AC015995, AC015995, AC026166, AC026166, and AC026166.
HCEFA10	380	603966	1 - 1460	15 - 1474	AV653805, AI015945, AA226333, AA226332, AW809365, AW863010, AC011939, AC011939, and AC011939.
HCEFA50	381	695707	1 - 2086	15 - 2100	Z80232.
HCEFA94	382	822850	1 - 1593	15 - 1607	AW861577, AC005224, AC007225, AC002080, AF001549, AP001726, AC003664, AL078590, AC007688, AL160008, Z83822, AL137022, AL353140, AC004687, AC008569, AL390738, AC005277, AC002331, AP000696, AC021040, AC021040, AL355512, AL355512, and

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HCEFC27	383	637531	1 - 1418	15 - 1432	BG168988, AV724146, BG118424, BE895362, BF692320, AW953755, BG249338, BG030147, BG248933, BF691476, AV684186, BG249320, BG261317, BF213660, BE739426, BF978075, BF573311, BF131870, BE893387, BF542096, AA442051, BE739091, AV651541, BF211610, BG166211, AV722112, AL519881, BF978401, BE896902, AA224025, AW965954, AA126864, H84677, AW952958, AA298236, AL519882, AL533521, H84671, AV686149, N75151, R12040, H12268, AA354770, AA054028, BE897003, AA298279, AV688299, AV691722, AA343906, AA298252, AA737265, AW183455, AA258950, AV731122, AA371402, H85599, H80022, BG105124, BF130041, AW382546, H04048, H85055, Z44898, H84001, R34971, AI633856, H85049, Z40665, AI285531, AI129816, AW403608, AW341204, BE218132, AV713181, BF744929, AF121860, AC004540, AC074396, AC074396, AC074295, AC074295, and AC004540.
HCEFG93	384	745400	1 - 2266	15 - 2280	AW976010, AW965008, AW342042, AL041706, AL138455, BE061906, BF840676, AW406162, D82290, AW163293, AW574794, AL046205, AW419262, BF311000, AI697208, BE908796, AL135377, AW576391, AW518220, BG222267, BE049095, AI149478, AA720702, AL046898, BF592311, AA493708, AW270270, AI254615, BF592200, AI799642, AA533333, AL080243, AC005037, AC008403, AC004099, AC011442, AC004966, AL031985, AP001720, AC002365, AC010289, Z83840, AC007226, AL049709, AB023054, AC024561, AC005005, AC006211, AP001694, AL157372, AC005844, AL445248, AL499628, AL049795, AP000555, AC008969, AL354872, AC011484, AC004019, AC004867, AC006538, AL049712, AL160191, AC006965, L78833, AL049757, AC007707, AC025593, AL121983, AP001718, AC008115, AC007151, AL031295, AL035089, AC011299, AC008372, AC004382, AL354720, AC005041, AC006450, AC010792, AL031728, AC004913, AC004971, AL034402, Z81364, AL109825, AC011470, AC004638, AL031685, AC002316, AC003007, AL031311, AC011475, AC004712, AC004965, AF243527, AL391122, AC005304, AC011489, AL031848, AL117354, AL117258, AF001549, AL049776, AC000052, U95742, AC006057, AC008521, AL157938, AC004125, AL133551, AL034420, AC005520, AC005280, AL354864, AC018663, AC068799, AC005225, AC005409, AC008155, AC004531, AC007130, AC004895, AC008569,

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HCEFH31	385	801890	1 - 2247	15 - 2261	BF435509, AW084003, BF475565, AW377101, AA526186, AA570505, BF060880, AW006250, AW007762, AI458032, AA149494, AI799666, AI084783, AI341557, BF436423, AI190971, AI377966, BG055129, AI085276, AI962810, AI972710, BE645786, AI380460, AW148913, AI123203, AW957523, AI122890, AW007426, AI863238, AA603986, AI921067, AI307748, AA149490, BE149118, AI280975, AI336463, W73495, BE149114, W73595, AI367500, AW149089, BE644890, AI814701, AW450642, AI766921, BF221807, AW572106, AW957522, AA235464, AI189309, BG055905, AW072576, AI129064, AA574230, AA292528, AI589229, AA650188, AW294024, AW512227, AI580733, AA037024, AI288103, AA877009, AI660255, F24537, AA578293, AA864573, AI274628, BE149130, AW188597, BF431012, AI572782, AA374109, BE149108, AI866359, T81066, AA558228, AW515493, AA621604, AI264439, AA658397, AI652870, AA573559, AA573997, AW970032, AI567038, Z39737,

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HCEFK56	386	872554	1 - 2441	15 - 2455	BE791339, BF525812, AU124328, BF343459, BE744925, BE794083, BE796625, BE798042, BE794017, BE792736, BE742390, AI147748, BF972245, BE278885, BG121682, BG253456, BF568588, AW850568, AI589755, BF310711, BE387426, AL046509, BE745709, BG029590, BE799399, AU121715, AL040296, BE250502, BF309371, BF311179, AI418510, BE888153, AW338127, BE893180, AW131159, BE612864, BE208579, AI815104, AU125380, BE715168, AI564718, AI563906, BF316494, BE882296, BE715158, AW843380, AA653737, AI936788, BE894307, BE613415, BE253341, AA600767, BE677325, AW274597, AW615467, AA600948, AW771373, BE314842, AI870268, BE882659, AI874350, BE260241, AW129455, BE254751, BE783966, AI610849, AW340587, AA522676, BF568759, BF313854, AL038797, AW376956, AI680464, AW072673, AI205066, AI499142, BF568990, AI003723, BE250609, BF943038, AI745360, AW752764, BF943043, BE743857, AW029634, AW084040, BF943623, AI281636, AA524906, AW381244, BG250768, AW381240, BF342573, AU159368, AA838045, AA683023, BE206130, W73217, BF568683, AI005092, AA576778, AW246643, AI925249, AI377814, AA815384, W73166, AA769793, AI292057, AW381234, AL039311, AW576137, AW580192, W73091, AW376908, BG165984, AI095879, AI051756, AI206518, AA825277, AL516396, AI074283, W73196, AW589561, AW675568, AI244613, AI084900, AW338159, AA977786, AI078255, BF954536, AI087416, AU141652, AW606656, AI601219, AI301677, AU158398, AA679619, AA507886, AA985094, AA488221, AI343546, AA931172, BE709999, AI338506, N36827, BE931567, AW246410, AU149052, AA280799, AL038796, BF945114, AA932246, BG107825, AU159158, AI000222, AA488168, C16663, BF950521, AA776509, BF308196, T03496, AW381239, AI769903, AW374977, AW014805, H41230, BF933731, BE830288, AI016422, AA349348, AW879684, AA633672, AW374899, AA628240, AI621099, C15751, AW374866, T03644, AW374870, AW374981, AW374879, T15403, AW374976, AW798077, AU140242, AU141945, AA349421, AA932451, AW374973, W47057, W81573, AW374980, AA351249, H42660, AV743791, BE938495, H61293, AI244619, AW062447, C15749,

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HCEFN51	387	839253	1 - 625	15 - 639	AI697032, AI745622, AA639842, AU150480, AU150887, BG057255, BE739736, AU145421, BF589233, AU158260, AU145822, AU154044, AU157522, AA563778, AV723122, AA171848, D51180, AI745549, N63431, AW058216, AI678079, AU153350, AA132245, AI280725, BF374111, BF752185, AW058215, AL523915, AA878392, N48575, AI376853, AW512818, AI298626, AI050805, AI245996, AA053879, AA581447, AI028093, H04515, AI301863, N40670, AU156463, AI814060, BG169761, AA164541, AI343901, AU158157, BF247552, AI355527, AI348557, AU154940, N62949, AU156038, N95738, AI272731, AI242274, AA364656, AI002560, AU156320, AA053119, BF103909, AW015971, AA961881, AW072950, AA282247, AI935814, W31388, BF028095, N26394, AA977726, AA053398, AW947142, BF358840, BE148235, AI077493, W32877, AA844000, AA814057, R74095, AA327358, AI240921, AI612988, R74466, AI520794, R78205, BE960620, AA507784, R42470, R63713, AW814449, AA631643, AI124074, AI475358, BF366272, BE246054, H06059, R73574, D61045, AA852837, AA886555, H02644, AA729401, AA503311, AA844287, AI351948, AA503146, AA361665, H26474, R45982, D78929, AA319371, AI802519, AW079003, R80545, AA352853, BF058928, AA889463, R74096, R27604, AA452816, H02564, BF356447, AI374645, R27779, R43484, AW891851, BE876985, H13158, BE885889, BF035631, AV715056, R77029, AV727801, AI361195, AV715865, AU154182, AI908442, C16830, BF333823, AI867588, BF333776, BE178546, AI347572, BF241119, C04053, BF914408, AV717666, AA904729, BF890782, D63285, D25782, D79080, BF360128, R27866, BF333822, BF754876, AA053032, BE568370, BE001183,

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HCEGG08	388	844506	1 - 2520	15 - 2534	BF347820, BF340446, BE963976, AV706183, AV702427, AV728270, AV707783, AV706724, BE619195, BF436323, AV725927, AV706746, AV726505, AV658362, AV701611, AV704592, AV723449, AV730781, AV727932, AV732149, AV730288, AV704974, AV751921, AV659189, AV731313, AV752043, AV753374, AV731744, AV725369, AV731708, AA910649, AV702637, AV730547, AV761002, AV760693, AV731977, AV732002, AV731043, AV746276, AV731694, AV726674, AV730711, AV702798, AV662191, AV729983, AV731759, AV752443, AV751555, AV710938, AV731275, AV751573, AV732653, AV730171, AV701237, AV732353, AV730165, AV732155, AI815089, AV757088, AV710534, AV701320, AV730816, AV704916, AV731915, AV656240, AV707088, AV733303, AV756895, AV757887, AV705020, AV756053, AV755874, AV752447, AV758481, AV726067, AV705263, AV711496, AV711240, AV732089, AV710417, AV745906, AV711274, AV732746, AV702869, AV647654, AV728872, AV745415, AA701287, AV758003, AV706104, AV707117, AV727103, AV652156, AV758133, AV710825, AV711567, AV702409, AV763440, AV757553, AV710495, AV723452, AV761270, AV710375, AV728777, AV727189, AV702354, AV707171, AV729129, AV702498, AV714368, AV707686, AV763171, AV702787, AV755473, AV752684, AV709897, AV721645, AV710562, AV710906, AV746382, AV706357, AV707882, AV710935, AV687176, AV755714, H17354, AV725387, AV705234, AV705280, AV725386, AV706035, AV705047, AV757171, AV763669, AV727355, AI338026, AV704611, AV730778, AV709407, AV707685, AV704116, AV752993, AV732200, AV703012, AV730859, AV646736, AV724987, AA725780, AV702581, AV756386, AV757864, AV704924, AV701783, AV728715, AV703417, AV755335, AV701728, AV693117, AV757686, AV757281, AV702671, AV729357, AV702954, AV721318, AV728455, AV730456, AW295635, AV707589, AV709935, AV730866,

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HCEGH74	389	847036	1 - 1110	15 - 1124	BE300065, BF337089, AW161800, AI475535, AA074357, AI146283, AI242025, AI935912, AI278474, AW302581, AI032317, AI198172, W68501, BE299966, AI264644, AA833948, W68385, BF838942, H18424, N74089, R99449, AV735318, AV744484, R99350, AA780255, AA350516, AV740970, AV742609, H72031, AI014800, BE937721, H09684, AA774896, H18532, AC003665, AB018318, and AC003665.
HCEGK81	390	844452	1 - 1772	15 - 1786	AA443751, BE891080, AA476802, BF115025, AA613973, AI363116, AI796565, AV762162,

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HCEGS49	391	846298	1 - 1674	15 - 1688	BF106368, BG249643, AL046409, AI334443, BF677892, AW303196, AI284640, BF241967, AW301350, BF668217, AV710066, AV761362, AW965008, AV763971, AV762098, AF330238, AW410400, AW274349, AW574794, AV763354, AW833862, AV760937, AI431303, AI281881, AI345654, BE150580, AA720702, AI270117, BE160727, AV735495, AW193265, BF915722, AV735370, AV728425, AW500125, BG059450, AV740801, AI457397, AA610491, AV760777, AW419262, AW028429, AV725423, AL138455, AV742057, AA587604, AL046205, AV761489, BF915247, AI754955, AV733830, AL119691, AW953071, AV759362, BF991286, AU147104, AW518220, AV762111, AW438643, AW502975, AW872676, AV764578, AW503666, AW265393, AI149478, AV757607, AW072923, AV725431, AV763255, AI289067, AW576391, AW021583, AI307201, AI679782, AV762395, AL041706, AL134972, AW265385, AV734666, AV761786, AV764241,

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HCEGU75	392	658670	1 - 1473	15 - 1487	BF981660, BF685192, BF038648, BF342088, AI684664, BE904021, AW246657, BE786013, AI819396, AW474451, BE790337, BF515606, AI224933, BE502853, AA857894, BF590803, AI017549, BE551214, AI769337, BE671006, BF431266, BE300752, AI017976, AW190690, AA603749, AI354360, H06972, AI498969, AA460347, N57956, AA642968, AA401323, AA024573, N94972, AA729823, AA411548, AA758511, AA460776, BG118868, AW246414, AA024574, AI927462, W78041, AA403032, AW117427, AI198324, AA972802, AW161307, AA888960, R15775, D20809, AV704595, AA603748, T09106,

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